

2020 E I 8 H T[®]
PRODUCT CATALOGUE

INFINITE POSSIBILITIES



about *Eight Limited*



Headquartered in Hong Kong SAR China, *Eight Limited* was founded in 1996 as a Cable Television and Communications Product company. With a mission to provide products and services that meet our customers' needs and expectations, we build what you want and we offer INFINITE POSSIBILITIES.

Eight Limited designs and manufactures products used throughout the world for CCTV, HDTV, CATV, SMATV as well as network systems. The company offers a full product line that includes HDTV, HD receivers, coaxial cables, RF amplifiers, taps, passives, connectors, modulators, dish antenna, satellite receivers, LNBFs, CCTV cameras, DVR, NVR, optical fiber, equipment racks, network cables, and more. Renowned for their superior quality and durability, all products are assembled and tested to meet the exact standards. We measure our success by the way our products perform in the field and the satisfaction from our customers.

EIGHT's customer base includes major cable television system operators, service providers, property developers, telcos, consumer electronics chain stores as well as individual consumers all over the world. Major customers in Hong Kong namely: HKSAR Government, Housing Authority, Hospitals, Universities, MTR, PCCW, SmarTone, i-Cable, TVB, Sun Hung Kai, Shun Hing, Broadway, Fortress etc.





Features

- Dual bonding
- Application temperature - 40 °C ~ +75 °C
- Flooding compound available
- Messenger wire with different breaking strength options
- ISO9001 Certified Manufacturing Plant

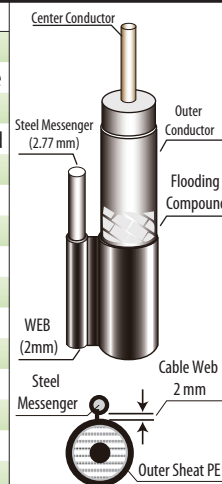
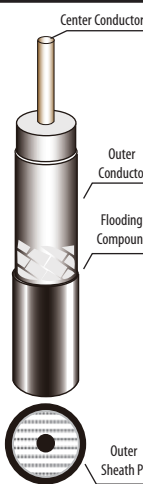
Hardline Cable 540 Series/ 500 Series



Armour
Available

Specifications

Model	CA540J	CA500J
Construction	Product	540 Series Jacketed
	Inner Conductor	Copper Clad Aluminum
	Outer Conductor	Welded Aluminum Tube
	Center Conductor Diameter	3.15 ± 0.02 mm
	Foam PE Dielectric	13.05 ± 0.15 mm
	Outer Conductor Thickness	0.34 ± 0.05 mm
	Outer Conductor	13.72 ± 0.15 mm
	PE Jacket	15.49 ± 0.15 mm
Electric Specifications	Nominal DC Resistance Inner Conductor	3.48 Ω / km
	Nominal DC Resistance Outer Conductor	1.97 Ω / km
	Nominal DC Resistance Loop	5.45 Ω / km
	Nominal Capacitance	51.0 pF / m
	Capacitance Impedance	75 ± 2 Ω
	Nominal Velocity of Propagation	87% Nominal
	Packing	2450 Feet Per Reel
		85 x 42 x 72 cm
		160 / 185



- Messenger option is available with model number CA 540JM 109
- Flooded compound models are available with the above spec: CA 540JF; CA 540JM 109F
- Messenger option is available with model number CA 500JM 109
- Flooded compound models are available with the above spec: CA 500J; CA 500JM 109F

Frequency MHz	5	55	211	250	270	300	330	350	400	450	500	550	600	750	870	1000
Attenuation Nominal dB/100m (CA540J)	0.46	1.54	3.09	3.34	3.50	3.74	3.93	4.07	4.36	4.63	4.92	5.17	5.44	6.13	6.65	7.19
Attenuation Nominal dB/100m (CA500J)	0.51	1.76	3.56	3.91	4.07	4.32	4.55	4.71	5.05	5.38	5.71	6.02	6.32	7.16	7.79	8.44

- Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.18% / deg C
- DC resistance changes at the rate of 0.393% / deg C
- All values are nominal figures

Specifications subject to change without notice.



Features

- **Dual bonding**
- **Application temperature - 20°C ~ +60°C**
- **Trishield and quadshield are available**
- **Flooding compound available**
- **Messenger wire with different breaking strength options**
- **UL grade available, contact us for details**
- **LSZH Jacket option available**
- **ISO9001 Certified Manufacturing Plant**
- **Other options are available, please ask our sales representative for detail**

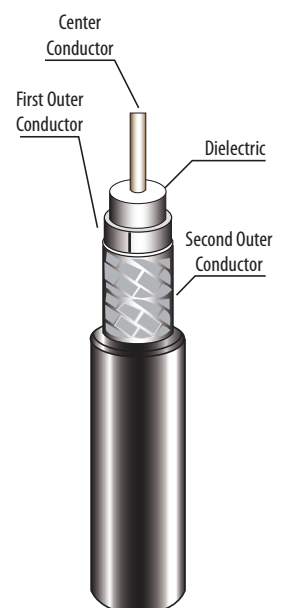
Coaxial Cable RG11



**Armour
Available**

Specifications

Model		CS1160BV	CS1190BV	CU1160BV
Construction	Inner Conductor	Copper Clad Steel 21% conductivity	Copper Clad Steel 21% conductivity	Solid Copper
	Braid Coverage, Aluminum Wire	60%	90%	60%
	Center Conductor Diameter (mm)	1.63 ± 0.01	1.63 ± 0.01	1.63 ± 0.01
	Bonded Foam PE Dielectric (mm)	7.11 ± 0.15	7.11 ± 0.15	7.11 ± 0.15
	Sealed Tape (mm)	7.32 ± 0.15 (APA)	7.32 ± 0.15 (APA)	7.32 ± 0.15 (APA)
	Aluminum Braiding (mm)	7.96 (16 x 6 x 0.16 mm)	7.96 (24 x 8 x 0.16 mm)	7.96 (16 x 6 x 0.16 mm)
	PVC Jacket (mm)	10.03 ± 0.15	10.03 ± 0.15	10.03 ± 0.15
Electric Specifications	Nominal DC Resistance Inner Conductor	40 Ω / km	40 Ω / km	8.4 Ω / km
	Nominal DC Resistance Outer Conductor	20.7 Ω / km	12.5 Ω / km	20.7 Ω / km
	Nominal DC Resistance Loop	60.7 Ω / km	52.5 Ω / km	29.1 Ω / km
	Nominal Capacitance	53.0 pF / m	53.0 pF / m	53.0 pF / m
	Capacitance Impedance	75 ± 2 Ω	75 ± 2 Ω	75 ± 2 Ω
	Nominal Velocity of Propagation	82% nominal	82% nominal	82% nominal
Packing	1000-Foot Reel Size (cm)	43 x 21 x 35.5	43 x 21 x 35.5	39 x 13.5 x 38
	Weight (Net / Gross, kg)	24 / 25	26 / 27	40 / 42



- Steel messenger wire 1.83mm models are available with the above spec: **CS1160BVM, CS1190BVM, CU1160BVM**
- Flooding compound models are available with the above spec: **CS1160BVMF, CS1190BVMF, CU1160BVMF**
- LSZH jacket option available
- Armoured type **CS1160BVA** with steel wire armour

Frequency MHz	5	55	211	250	270	300	330	400	450	550	600	750	870	1000	1500	2000	2050	2200
Attenuation Nominal dB/100m	1.20	3.01	5.65	6.19	6.48	6.86	7.31	8.01	8.55	9.03	9.97	11.24	12.15	13.15	17.35	19.22	19.45	20.37

- Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.18% /°C
- DC resistance changes at the rate of 0.393% /°C
- All values are nominal figures

Specifications subject to change without notice.



Features

- **Dual bonding**
- **Application temperature - 20°C ~ +60°C**
- **Flooding compound available**
- **Messenger wire with different breaking strength options**
- **UL grade available, contact us for details**
- **LSZH option available for these IEC standards**
- **IEC61034-2:2005, IEC60754-1:2011, IEC60332-1-2:2004**
- **ISO9001 Certified Manufacturing Plant**
- **Other options are available, please ask our sales representative for detail**

Coaxial Cable RG6



**Armour
Available**

Specifications

Model		CS640BV	CS660BV	CS690BV	CS660BVT
Construction	Inner Conductor	Copper Clad Steel 20% conductivity	Copper Clad Steel 20% conductivity	Copper Clad Steel 21% conductivity	Copper Clad Steel 21% conductivity
	Braid Coverage, Aluminum Wire	40%	60%	90%	60%
	Center Conductor Diameter (mm)	1.02 ± 0.01	1.02 ± 0.01	1.02 ± 0.01	1.02 ± 0.01
	Bonded Foam PE Dielectric (mm)	4.62 ± 0.10	4.62 ± 0.10	4.57 ± 0.10	4.57 ± 0.10
	Sealed Tape (mm)	4.75 ± 0.10 (AP)	4.75 ± 0.10 (AP)	4.78 ± 0.10 (APA)	4.78 ± 0.10 (APA)
	Aluminum Braiding (mm)	5.16 (16 x 3 x 0.12 mm)	5.16 (16 x 5 x 0.12 mm)	5.38 (16 x 8 x 0.16 mm)	5.38 (16 x 4 x 0.16 mm)
	Unsealed Tape (mm)	---	---	---	5.56
Electric Specifications	PVC Jacket (mm)	6.80 ± 0.15	6.80 ± 0.15	6.91 ± 0.15	7.06 ± 0.15
	Nominal DC Resistance Inner Conductor	105 Ω / km	105 Ω / km	100 Ω / km	100 Ω / km
	Nominal DC Resistance Outer Conductor	70 Ω / km	49.5 Ω / km	18.56 Ω / km	21.35 Ω / km
	Nominal DC Resistance Loop	175 Ω / km	144.5 Ω / km	118.56 Ω / km	121.35 Ω / km
	Nominal Capacitance	53.0 pF / m	53.0 pF / m	53.0 pF / m	54.0 pF / m
	Capacitance Impedance	75 ± 3 Ω	75 ± 2 Ω	75 ± 2 Ω	75 ± 2 Ω
Packing	Nominal Velocity of Propagation	85% nominal	85% nominal	85% nominal	85% nominal
	100-Yards Coil/Carton (6 Coils, 5 Boxes)	28 x 28 x 55 cm	30 x 30 x 53 cm	---	30 x 30 x 53 cm
	Weight (Net / Gross, kg)	22 / 23	23 / 24	---	23 / 24
	1000-Feet Reel Size (cm)	---	32 x 15 x 30	32 x 15 x 30	---
	Weight (Net / Gross, kg)	---	12 / 13	15 / 16	---

- Steel messenger wire 1.30 mm models are available with the above spec: **CS640BVM, CS660BVM, CS690BVM**
- Flooding compound models are available with the above spec: **CS640BVMF, CS660BVMF, CS690BVMF**
- LSZH Jacket option available
- Armour type available

Frequency MHz	5	55	211	250	270	300	330	400	450	500	550	600	750	870	1000	1500	2000	2050	2200
Attenuation Nominal (±0.5)dB/100m	1.90	4.82	9.25	10.11	10.54	11.15	11.74	13.02	13.87	14.67	15.46	16.23	18.41	20.05	21.29	27.10	29.71	30.06	30.24

- Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.18% /°C
- DC resistance changes at the rate of 0.393% /°C
- All values are nominal figures

Specifications subject to change without notice.



Features

- Dual bonding
- Application temperature - 20 °C ~ +60 °C
- Trishield and quadshield are available
- Flooding compound available
- Messenger wire with different breaking strength options
- UL grade available, contact us for details
- LSZH Jacket option available
- ISO9001 Certified Manufacturing Plant
- Other options are available, please ask our sales representative for detail

Coaxial Cable RG59



Armour
Available

Specifications

Model		CS5953BV	CS5967BV	CS5995BV	CU5967BV
Construction	Inner Conductor	Copper Clad Steel 21% conductivity	Copper Clad Steel 21% conductivity	Copper Clad Steel 21% conductivity	Solid Copper
	Braid Coverage, Aluminum Wire	53%	67%	95%	67%
	Center Conductor Diameter (mm)	0.81 ± 0.01	0.81 ± 0.01	0.81 ± 0.01	0.81 ± 0.01
	Bonded Foam PE Dielectric (mm)	3.66 ± 0.01	3.66 ± 0.01	3.66 ± 0.01	3.66 ± 0.01
	Sealed Tape APA (mm)	3.86 ± 0.10	3.86 ± 0.10	3.86 ± 0.10	3.86 ± 0.10
	Aluminum Braiding (mm)	4.50 (16 x 3 x 0.16 mm)	4.50 (16 x 4 x 0.16 mm)	4.50 (16 x 7 x 0.16 mm)	4.50 (16 x 4 x 0.16 mm)
	PVC Jacket (mm)	6.10 ± 0.10	6.10 ± 0.10	6.10 ± 0.10	6.10 ± 0.10
Electric Specifications	Inner Conductor Resistance	159 Ω/km	159 Ω/km	159 Ω/km	33.45 Ω/km
	Outer Conductor Resistance	38.76 Ω/km	31.43 Ω/km	21.2 Ω/km	31.43 Ω/km
	Loop Resistance	197.76 Ω/km	190.43 Ω/km	180.2 Ω/km	64.88 Ω/km
	Nominal Capacitance	53.0	53.0	53.0	53.0
	Impedance	75 ± 2 Ω	75 ± 2 Ω	75 ± 2 Ω	75 ± 2 Ω
	Velocity of Propagation	82% nominal	82% nominal	82% nominal	82% nominal
Packing	100-yards Coil/Carton (6 Coils, cm)	28 x 28 x 45	28 x 28 x 45	28 x 28 x 45	28 x 28 x 45
	Net Weight / Gross Weigh (kg)	17 / 18	17.5 / 18.5	20 / 21	18 / 19
	1000-Feet Reel Size (cm)	28 x 10 x 28	28 x 10 x 28	28 x 10 x 28	28 x 10 x 28c
	Net Weight /Gross Weight (kg)	10 / 11	10.5 / 11.5	11 / 12	10.5 / 11.5

- Steel messenger wire 1.30 mm models are available with the above spec: **CS5953BVM, CS5967BVM, CS5995BVM, CU5967BVM**
- Flooding compound models are available with the above spec: **CS5953BVMF, CS5967BVMF, CS5995BVMF, CU5967BVMF**
- LSZH Jacket option available

Frequency MHz	5	55	211	250	270	300	330	400	450	500	550	600	750	870	1000	1500	2000	2050	2200
Attenuation Nominal dB/100m	2.32	5.96	11.63	12.66	13.21	13.91	14.70	16.13	17.14	18.10	19.01	19.89	22.34	24.14	25.97	32.15	37.90	39.60	40.98

- Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.18% /°C
- DC resistance changes at the rate of 0.393% /°C
- All values are nominal figures

Specifications subject to change without notice.



Features

- Application temperature - 40°C ~ +75°C
- UL grade available, contact us for details
- LSZH Jacket option available
- ISO9001 Certified Manufacturing Plant
- Other options are available, please ask our sales representative for detail

Coaxial Cable RG58



Armour
Available

Specifications

Model		CU5890BV
Construction	Inner Conductor	Stranded Copper Wire
	Braid Coverage	90%
	Center Conductor	19 x 0.18 mm
	Solid PE Insulation	2.95 mm
	TIN - Copper Braiding	16 x 6 x 0.12 mm
	PVC - Jacket	5.00 mm
Electric Specifications	Inner Conductor Resistance	38 Ω / km
	Outer Conductor Resistance	20 Ω / km
	Loop Resistance	53
	Nominal Capacitance	10 pF / m
	Impedance	50 Ω ±2
	Propagation Velocity Ratio	66% Nominal
Packing	100 Yards Reel / 4 Reels in a Carton	26 x 10 x 7.2 cm / 27x 27 x 28.5cm
	Gross Weight	16 kg
	Net Weight	15 kg
	200 Yards Reel / 2 Reels in a Carton	26 x 10 x 13 cm / 27x 27 x 28.5cm
	Gross Weight	16 kg
	Net Weight	15 kg

Frequency MHz	50	100	200	550	750	800	1000
Attenuation Nominal dB/100m	10.30	14.78	21.42	38.26	46.12	48.07	54.96

Specifications subject to change without notice.



Features

- **Outer Jacket Polyvinyl Chloride**
- **Standard:**
ISO/IEC 11801, ANSI/TIA- 568-C2, UL444,
- **LSZH is available , Armour version available**
- **Application:**
Data communications, Local area networks, Building signaling systems
- **ISO9001 Certified Manufacturing Plant**

Category 5E UTP / FTP Cable

C5EUSG

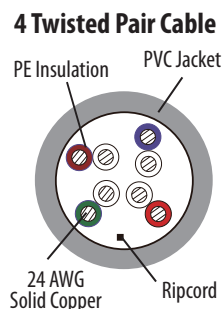


Armour Available

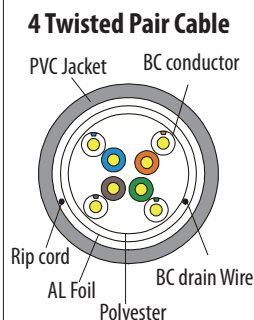
Specifications

Specification		
General	Operating Temperature Range	-20°C ~ 75°C
	Maximum pulling Tension	70N
	Minimum bending Radius	4D mm
	Nominal Mutual Capacitance@ 1KHz	5.1 nF / 100m
	Maximum Capacitance Unbalance	330 pF / 100m
	Maximum Delay @1Hz	570 ns / 100m
	Maximum Delay Skew	45 ns / 100m
	Maximum Conductor DC Resistance @20°C	93.8 Ω / 100m
	Maximum DCR Unbalance @20°C	5%
	Maximum Operating Voltage (VRMS)	≤ 80V
	Characteristics Impedance	100 Ω

Construction (UTP)



Construction (FTP)



Electric Performance	Frequency MHz	Attenuation (dB/100m)	NEXT (dB)	Return Loss (dB)	ACR (dB)	Power Sum		
						NEXT (dB)	ELFEXT (dB/100m)	ACR (dB)
	1	2.0	65.3	20.0	63.3	63.3	63.8	61.3
	4	4.1	56.3	23.0	52.2	54.3	51.8	50.2
	8	5.8	51.8	24.5	46.0	49.8	45.7	44.0
	10	6.5	50.3	25.0	43.8	48.3	43.8	41.8
	16	8.3	47.2	25.0	39.0	45.2	39.7	37.0
	20	9.3	45.8	25.0	36.5	43.8	37.8	34.5
	25	10.4	44.3	24.3	33.9	42.3	35.8	31.9
	31.3	11.7	42.9	23.6	31.2	40.9	33.9	29.2
	62.5	17.0	38.4	21.5	21.4	36.4	27.9	19.4
	100	22.0	35.3	20.1	13.3	33.3	23.8	11.3

Pair Identification

Pair 1	Blue / White
Pair 2	Orange / White
Pair 3	Green / White
Pair 4	Brown / White





Features

- **Conductor:** 23 AWG, solid copper wires
- **Outer Jacket:** Polyvinyl chloride
- **Standard:**
ISO/IEC 11801, ANSI/TIA- 568-C2, UL444,
- **LSZH is available , Armour version available**
- **Application :**
Data communications, Local area networks, Building signaling systems
- **ISO9001 Certified Manufacturing Plant**

Category 6 UTP Cable C6USG



Armour Available

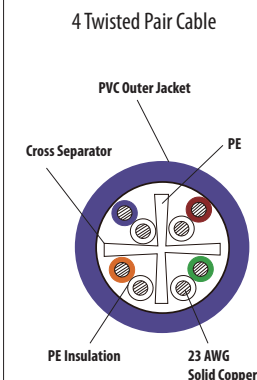
Specifications

Specification

General	Operating Temperature Range	-20°C ~ 50°C
	Maximum pulling Tension	70N
	Minimum bending Radius	4D mm
	Nominal Mutual Capacitance @1KHz	5.1 nF /100m
	Maximum Capacitance Unbalance	330 pF /100m
	Maximum Delay @1KHz	570 ns /100m
	Maximum Delay Skew	45 ns /100m
	Maximum Conductor DC Resistance @20°C	9.38 Ω /100m
	Maximum DCR Unbalance @20°C	5%
	Maximum Operating Voltage(VRMS)	80V
	Characteristics Impedance	100 Ω

Electric Performance	Frequency MHz	Attenuation (dB/100m)	NEXT (dB)	Return Loss (dB)	ACR (dB)	Power Sum		
						NEXT (dB)	ELFEXT (dB/100m)	ACR (dB)
	1	2.0	74.3	20.0	72.3	72.3	63.8	70.3
	4	3.8	65.3	23.0	61.5	63.3	51.8	59.5
	8	5.3	60.8	24.5	55.4	58.8	45.7	53.4
	10	6.0	59.3	25.0	53.4	57.3	43.8	51.4
	16	7.6	56.2	25.0	48.7	54.2	39.7	46.7
	20	8.5	54.8	25.0	46.3	52.8	37.8	44.3
	25	9.6	53.3	24.3	43.8	51.3	35.8	41.8
	31.3	10.7	51.9	23.6	41.2	49.9	33.9	39.2
	62.5	15.4	47.4	21.5	32.0	45.4	27.9	30.0
	100	19.8	44.3	20.1	24.5	42.3	23.8	22.5
	155	25.2	41.5	18.8	16.3	39.5	20.0	14.3
	200	29.0	39.8	18.0	10.8	37.8	17.8	8.8
	250	32.9	38.3	17.3	5.5	36.3	15.8	3.5

Construction



Pair Identification

Pair 1	Blue / White
Pair 2	Orange / White
Pair 3	Green / White
Pair 4	Brown / White





Features

- **Conductor:** 23 AWG, solid copper wires
- **Outer Jacket:** LSZH
- **Standard:**
ISO/IEC 11801, ANSI/TIA- 568-C.2, IEC 61156-5,
EN 50575:2014, EN 60332-1-2:2004, EN 13601-6:2004,
UL444 & C22.2 No.214
- **Application :**
Data communications, Local area networks, Building
signaling systems
- ISO9001 Certified Manufacturing Plant

Category 6A F/UTP Cable C6AUSG



Armour
Available

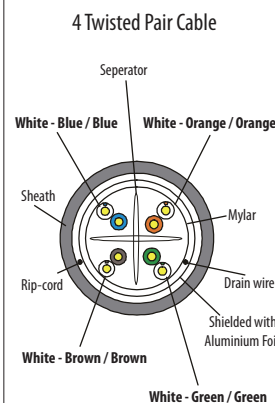
Specifications

Specification

General	Operating Temperature Range	-20°C ~ 50°C
	Maximum pulling Tension	110N
	Minimum bending Radius	59 mm
	Nominal Mutual Capacitance	Nominal 5300pf/100m Max.5800pf/100m
	Maximum Capacitance Unbalance	330 pF /100m
	Maximum Delay @100MHz	537.6 ns /100m
	Maximum Delay Skew	45 ns /100m
	Maximum Conductor DC Resistance @20°C	9.38 Ω /100m
	Maximum DCR Unbalance @20°C	5%
	Maximum Operating Voltage(VRMS)	80V
	Characteristics Impedance	100 Ω
	Nominal velocity of propagation	69%

Electric Performance (100m)	Frequency MHz	Attenuation (≥dB)	NEXT (≤dB)	Return Loss (≥dB)	Power Sum		
					PSNEXT (≥dB)	ELFEXT (≥dB)	PSELFEXT (≥dB)
	1	---	74.3	20.0	72.3	68.0	65.0
	4	3.8	65.3	23.0	63.3	56.0	53.0
	8	5.3	60.8	24.5	58.8	49.9	46.9
	10	5.9	59.3	25.0	57.3	48.0	45.0
	16	7.5	56.2	25.0	54.2	43.9	40.9
	20	8.4	54.8	25.0	52.8	42.0	39.0
	25	9.4	53.3	24.3	51.3	40.0	37.0
	31.25	10.5	51.9	23.6	49.9	38.1	35.1
	62.5	15	47.4	21.5	45.4	32.1	29.1
	100	19.1	44.3	20.1	42.3	28.0	25.0
	200	27.6	39.8	18.0	37.8	22.0	19.0
	250	31.1	38.3	17.3	36.3	20.0	17.0
	300	34.3	37.1	16.8	35.1	28.5	15.5
	500	45.3	33.8	15.2	31.8	14.0	11.0

Construction



Pair Identification

Pair 1	Blue / White
Pair 2	Orange / White
Pair 3	Green / White
Pair 4	Brown / White



Specifications subject to change without notice.



Features

- Power limited controls
- Single line telephone
- Security systems
- LSZH Jacket option available

Control Cable



Specifications

Model		7024	7026	7028	70212	8723	8761
Conductor	Material	TC	TC	TC	TC	TC	TC
	Diameter	7/0.2mm	7/0.2mm	7/0.2mm	7/0.2mm	0.25mm	0.25mm
	Max Resistance(20°C)	79Ω/km	79Ω/km	79Ω/km	79Ω/km	52Ω/km	52Ω/km
	Construction	4x7/0.2mm	6x7/0.2mm	8x7/0.2mm	12x7/0.2mm	2x(2x7/0.25)mm TC	2x(2x7/0.25)mm TC
Insulation	Insulation	PVC	PVC	PVC	PVC	PVC	PVC
	Insulation Thickness	0.25mm±0.03mm	0.25mm±0.03mm	0.25mm±0.03mm	0.25mm±0.03mm		---
	Insulation Diameter	1.1mm±0.03mm	1.1mm±0.03mm	1.1mm±0.03mm	1.1mm±0.03mm	1.20mm±0.05mm	1.55mm±0.05mm
	Insulation Color	White, Orange, Black, Red	Black, White, Red, Orange, Green, Brown	White, Orange, Black, Red, Green, Brown, Yellow, Blue	White, Orange, Black, Red, Green, Brown, Yellow, Blue, Grey, Light blue, Purple, Light Brown	White, Black, Red, Green	White, Black
Jacket	Jacket Material	PVC	PVC	PVC	PVC	PVC	PVC
	Jacket Color	White	White	White	White	Grey	Grey
	Jacket Thickness	0.6mm±0.1mm	0.6mm±0.1mm	0.6mm±0.1mm	0.6mm±0.1mm	0.7mm±0.05mm	0.85mm±0.05mm
	Jacket O.D	4.1 mm±0.1mm	4.5 mm±0.1mm	5.1 mm±0.1mm	5.8 mm±0.1mm	5.2 mm±0.1mm	5.4 mm±0.1mm
Shield	AL Foil	---	---	---	---	AL Foil	Blue AL Foil
	Drain Wire	---	---	---	---	7/0.2mm TC	7/0.25mm TC
Operation Temperature		-15°C to +65°C	-20°C to +65°C	-15°C to +65°C	-15°C to +65°C	-15°C to +65°C	-15°C to +65°C
Working voltage		300/300V	300/300V	300/300V	300/300V	300/300V	300/300V
Diameter	100 Yards	Φ220x66mm	Φ220x71mm	Φ220x91mm	---	Φ220x91mm	Φ220x101mm
	200 Yards	Φ220x111mm	Φ220x131mm	Φ220x168mm	---	Φ220x168mm	Φ220x196mm
Weight	100 Yards	2.2kg	2.8kg	---	---	---	---
	200 Yards	4.1kg	5.65kg	7.07kg	---	7.34kg	5.91kg
Construction							

Specifications subject to change without notice.



Features

- Intercom / PA systems
- Sound / Audio systems
- LSZH Jacket option available

Speaker Cable



Specifications

Model		1612	1920	1920LSZH	4215	7250	2008
Conductor	Material	BC	TC	TC	BC	TC	BC
	Diameter (mm)	16/0.12	19/0.2	19/0.21	42/0.15	7/0.25mm	200/0.08
	Max Resistance(20°C)	96Ω/km	29Ω/km	29Ω/km	24Ω/km	51Ω/km	18Ω/km
	Construction (mm)	2x16/0.12	2x19/0.2	2x19/0.21	---	---	2x200/0.08
Insulation	Insulation	PE	PVC	PVC	PVC	PE	PE
	Insulation Thickness	---	---	---	0.89mm	0.42mm	0.24mm
	Insulation Diameter (mm)	1.2mm ± 0.02	2.0±0.05	2.1±0.05	2.9x5.8	1.6±0.02	1.8 ± 0.02
	Insulation Color	White, Orange	White, Black	White, Black	Red, Black	White, Black	Transparent
Jacket	Jacket Material	PVC	PVC	PVC	---	PVC	PVC
	Jacket Color	Grey	Grey	Grey	---	Black	Transparent
	Jacket Thickness (mm)	0.38 ± 0.02	0.9±0.05	0.9±0.05	---	0.55 ± 0.02	0.9 ± 0.02
	Jacket O.D (mm)	3.1 ± 0.05	5.8±0.1	6.0±0.1	---	4.1 ± 0.05	4.2x8.4 ± 0.05
Drain Wire		25/0.12mmTC	---	---	---	7/0.25mmTC	---
Shield		AL Foil	---	---	---	AL Foil	---
Operation Temperature		-15°C to +65°C	-20C to +70°C	-20C to +70°C	-15°C to +65°C	-15°C to +65°C	-15°C to +65°C
Working voltage		---	300/300V	300/300V	300/300V	---	300/300V
Diameter	100 Yards	Φ220x41mm	Φ220x106mm	---	Φ220 x 61mm	Φ220x66mm	Φ200x140mm
	200 Yards	Φ220x66mm	Φ220x200mm	Φ225x204mm	Φ220 x 106mm	Φ220x111mm	---
Weight	100 Yards	1.4kg	4.2kg	---	2.95Kg	---	4.5 Kg
	200 Yards	---	7.6kg	8.04kg	---	4.4kg	---
Construction							

Specifications subject to change without notice.



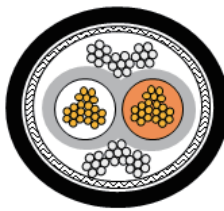
Features

- Supreme quality
- Intercom / PA systems
- Sound / Audio systems
- LSZH Jacket option available

Microphone Cable



Specifications

Model		1625	1810	2512
Conductor	<i>Material</i>	TC (Tinned Copper)	BC (Bare Copper)	TC (Tinned Copper)
	<i>No. of Stranded</i>	16	18	25
	<i>Single Core Diameter</i>	0.25mm	0.1mm	0.12mm
	<i>Stranded Diameter</i>	1.15mm	0.49mm	---
	<i>Max Resistance(20°C)</i>	22 ohm/km	122 ohm/km	61 ohm/km
Insulation	<i>Construction</i>	16/0.25mmTC	18/0.1mmBC	2 x 25/0.12mmTC+ 1 Tinsel copper
	<i>Insulation</i>	PE	PE	PVC
	<i>Insulation Thickness</i>	0.52mm	0.28mm	---
	<i>Insulation Diameter</i>	2.2mm±0.02	1.05mm±0.05	0.5mm±0.05mm
	Drain Wire	10/0.25mmTC	---	---
Filler		---	Cotton Yarn & Cotton paper	Cotton Yarn
Shield		Inner: AL Foil	Spiral: 71/0.1mmTC, Coverage 70%	Inner: AL Foil
				Outer: 96/0.1mm BC, Coverage 80%
Jacket	<i>Jacket Material</i>	PVC	PVC	PVC
	<i>Jacket Thickness</i>	0.65mm±0.02	1.1mm±0.02	1.35mm±0.05mm
	<i>Jacket Diameter</i>	5.5mm±0.1	4.5mm±0.05	6.5 mm±0.1mm
Operation Temperature		-15°C To +65°C	-15°C To +65°C	Φ220x136,
Diameter	100 Yards	Φ220x101mm,	---	Φ240x206
	200 Yards	Φ220x196mm	---	100 Yards: 5.22Kg
Weight		100 Yards:5.22kg	---	
Construction				

Specifications subject to change without notice.



VGA Cable VGA36

Features

- VGA cables can be made with 3 analog cables with 6 signal cables
- VGA cables compatible with IBM VGA, sVGA, VESA, etc
- Tinned conductors at the bare end installation of a 15-pin HD connector
- For typical 5 BNC installation, just cut and prep the coaxes as usual for crimp or compression connectors on 26/28 gauge mini coax
- Multicore conductors, Thermoplastic insulation
- 100% Shielding against EMI via full coverage of Aluminium Foil Tape and Braid Wires



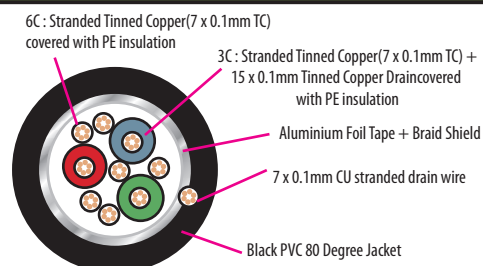
Specifications

Model		VGA36	
Construction	Conductors	Stranded Tinned Copper (7 x 0.12mm TC) + 27 x 0.1mm Tinned Copper Drain	Stranded Tinned Copper (7 x 0.12mm TC)
	Insulation	3 core insulation	6 core insulation
	Shielding	Primary	Aluminium Foil Tape 100% overlap the conductors and insulation
		Secondary	Aluminium Magnesium Braid
	Jacket	80C Degree Heat Resistant PVC jacket	
Return Loss	Overall Diameter	8.35 mm +/-5%	
	Frequency MHz	0-50MHz	>25 dB
		50-600MHz	>20 dB
		600-900MHz	>15 dB
Mechanical Characteristics	Tensile Strength (Mpa)	≥13.8	
	Insulation Elongation %	≥80	
	Minimum Bending Radius	Storage	8 x OD
		Use	10 x OD
	Operation Temperature	-20°C ~ +70°C	
	Spark Test	3.0KV/ Sec NO BREAKING	
	Cold Bend Test	- 10±1°C/4HR NO CRACKING	
	Heat Shock Test	121±1°C/1HR NO CRACKING	

Electrical Characteristics

Frequency MHz	1	5	10	50	100	180	400	750	1000
Attenuation dB / 100 ft	-0.6	-1.4	-2.1	-4.7	-6.8	-9.2	-14.2	-20.1	-23.8
Capacitance: 18.3pF per ft, 60pF per meter									
DC Resistance: 72.2Ω per 1000 ft, 237Ω per km									
Impedance: 75Ω (±5Ω)									
Temperature: - 20°C ~ 80°C									
Velocity of propagation : 78%									

Cable Construction Diagram



Specifications subject to change without notice.



Satellite Solid Antenna

3M, 3.7M, 4.5M, 6M

Features

- *Stretch formed aluminum reflector with high precision*
- *Well in anti-corrosion*
- *Excellent in stability*
- *Accurate in adjustment*

Specifications

Model	S300A-P	S370A-P	S450A-P	S600A-P
Antenna 	3M C-BAND	3.7M C-BAND	4.5M C-BAND	6M C-BAND
Frequency	3.4 ~ 4.2 GHz	3.4 ~ 4.2 GHz	3.4 ~ 4.2 GHz	3.4 ~ 4.2 GHz
VSWR	1.3:1	1.3:1	1.25:1	1.25:1
Insertion Loss	0.25 dB	0.25 dB	0.25 dB	0.25 dB
Feed Interface	WR229F	WR229F	WR229F	WR229F
Polarization Isolation	35dB	35dB	35dB	35dB
-3dB Beamwidth	1.77°	1.44°	1.137°	0.877°
First Sidelobe	≤ -14 dB	≤ -14 dB	≤ -14 dB	≤ -14 dB
Gain	39.33dB (F = 3.8 GHz)	41.15dB (F = 3.8 GHz)	43.19dB (F = 3.8 GHz)	45.35dB (F = 3.8 GHz)
Noise Temperature	34°K@10°	35°K@10°	35°K@10°	35°K@10°
Antenna Optics	Prime-focus	Prime-focus	Prime-focus	Prime-focus
Elevation Adjustment	0° ~ 90°	10° ~ 90°	0° ~ 90°	0° ~ 90°
Azimuth Adjustment	0° ~ 360° Continuous fine adjustment	Manual 0° ~ 360° continuous fine adjustment Motorized ± 85° continuous adjustment (Detach into three grade)		
Wind Loading <i>Fixed heavenward</i>	125mph / 200kmph Survival			
Temperature	-45°C ~ 50°C			
Relative Humidity	0% ~ 100%			
Seismic Capacity	0.3G's horizontal 0.15G's vertical			
Weight	170 kg	289 kg	780 kg	1995 kg

* Other diameter on request

Specifications subject to change without notice.





Features

- Pro-form aluminum reflector
- C/Ku mesh
- Powder-coat finish
- Wind-resistant structure
- 8 Point Pro-form 32" mount
- 4 Point Pro-form 24" mount
- Quad feed support
- Ideal for TVRO / SMATV application

Satellite Mesh Antenna

2.3M, 3M, 3.7M

Specifications

Model	ST-7	ST-10	ST-12
Type	4 Section	8 Section	8 Section
Operation Frequency	1 ~ 13 GHz	1 ~ 13 GHz	1 ~ 13 GHz
Diameter	2.3 m (7.5 ft)	3.0 m (10 ft)	3.69 m (12 ft)
Reflective Material	Aluminum	Aluminum	Aluminum
Mesh Thickness	0.7 ± 0.05 mm	0.8 ± 0.14 mm	0.8 ± 0.14 mm
Mounting	Polar mount	Polar mount	Polar mount
F/D Ratio	0.3766	0.385	0.385
Pole Size (O.D)	76 mm (3")	114 mm (4.5")	114 mm (4.5")
Focal Length	866.25 mm (36")	1155 mm (45 7/8")	1424.50 mm (57 1/2")
Gain at 4.2 (GHz)	37.08 dBi	39.39 dBi	41.20 dBi
Gain at 12.2 (GHz)	46.5 dBi	48.69 dBi	50.47 dBi
Frist Side Lobe	≤ -14 dB		
Feed	Prime focus		
	Quad feed		
	Support		
EL Travel Range	5° ~ 90°		
AZ Travel Range	0° ~ 360°		
Withstand Wind (Operation) 8 degree wind	72 km / h		
(Able to receive) 10 degree wind	100.8 km / h		
(Survival upright) 12 degree wind	133.2 km / h		
Net Weight	34.3 kg	60 kg	68 kg

Specifications subject to change without notice.





Features

- Ultra light
- Compact size
- Extended C band range

C Band / Ku Band LNB

LNB C EX 17K/ KDF113/ KDR678

Specifications

Model	LNB C EX 17K	KDF-113	KDR-678
Band	C band LNB	Ku band LNB	Ku band LNB
Input Frequency	3.7 ~ 4.2 GHz	12.25 ~ 12.75 GHz	12.25 ~ 12.75 GHz
Output Frequency	950 ~ 1450 MHz	950 ~ 1450 MHz	950 ~ 1450 MHz
L.O & Stability (Over Temperature)	5.15 GHz $\pm$ 2.5 MHz	11.3 GHz $\pm$ 2 MHz	10.678 GHz $\pm$ 2 MHz
Noise Temperature (@+25 degree C)	25 ~ 35K (max)	0.6 ~ 0.9 dB (max)	0.6 ~ 0.9 dB (max)
Input VSWR	2.5:1 (typ)	2.5:1 (typ)	2.5:1 (typ)
Image Rejection	40 dBc (min)	40 dBc (min)	40 dBc (min)
Conversion Gain	66 dB typ (62dB min, 72dB max)	55 dB (typ)	55 dB (typ)
1 dB Gain Compression Point	5 dBm (typ)	0 dBm (min)	0 dBm (min)
Output VSWR	2:1 (typ)		
Gain Flatness	6 dBp-p (max)		
Gain Ripple (@ per channel)	$\pm$ 0.75 dB (max)		
Output Impedance	75 Ω		
Leakage (@ Input port)	-60 dBm (max)		
Phase Noise	-80 dBc/Hz (@10KHz)		
	-95 dBc/Hz (@100KHz)		
	-110 dBc/Hz (@1MHz)		
Power Supply	12 ~ 24V DC		
Requires Current	150mA (max)		
Operating Temperature	-30°C ~ 60°C		
Storage Temperature	-40°C ~ 80°C		
Relative Humidity	0% ~ 95% RH		
Input Waveguide Flange	WR-229	WR-75	WR-75
IF Output Connector	F-Type Female		

Specifications subject to change without notice.

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C Band PLL LNB NJS8487S

Features

- Low noise temperature: 15K
- Low DC current drain: 350mA
- Small size & light weight: 800g
- RoHS compliance
- C-Band PLL LNB
- Made in Japan

Made In Japan

Specifications

Model		NJS8487S	
RF Frequency	3.625 ~ 4.200 GHz (Palapa C-band)	Input Interface	Waveguide, CPR 229 (with Groove)
Local Frequency	5.15 GHz	Output Interface	F-type, female (75 Ω)
IF Connector	950 ~ 1,525 MHz	Noise Temperature	$T_{a.:+25^{\circ}\text{C}}$ 15K typ, 30K max.
Local Stability	$\pm 3\text{ppm}$	Linear Gain	$T_{a.:+25^{\circ}\text{C}}$ 59 db min 66 db max.
IF Connector	F-type	Local Stability	$\pm 2.5\text{ ppm}$ ($T_a: -30^{\circ}\text{C} \sim 60^{\circ}\text{C}$)
Power Supply	24 VDC (12 - 24 VDC)		$\pm 3.0\text{ ppm}$ ($T_a: -40^{\circ}\text{C} \sim 60^{\circ}\text{C}$)
		L.O.Phase Noise	- 70 dBc / Hz typ.@100Hz - 80 dBc / Hz typ.@1KHz - 85 dBc / Hz typ.@10KHz - 95 dBc / Hz typ.@100KHz
		Spurious	-140 dBm max, at input, Fixed frequency spur, unrelated to test CW signal (Measured at specified IF band) -55 dBc max. with test CW signal -10 dBm IF output (Measured at specified IF band)
		Waterproof / Dustproof	IP67
		Output V.S.W.R	2.5 : 1 max
		Power Requirement	24 VDC (12 - 24 VDC)
		Current Drain	350 mA max.
		Temperature Range (ambient)	-40°C ~ 60°C (operating), -40°C ~ 80°C (storage)
		Dimension & Housing (LxWxH)	80.8 x 99.6 x 76 mm
		(Without Interface Connector)	3.18" x 3.92" x 2.99"
		Weight	800g (1.76 lbs)

Specifications subject to change without notice.

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Features

- Flexibility
- Excellent performance
- Compact with high reliability

5G Bandpass Filter BPF-3700S

Specifications

Model	5G Interference Rejection Bandpass Filter
Frequency Range	3700~4200 MHz
Return Loss	>16 dB (Typical>22 dB)
Insertion Loss	3700~4200 MHz < 0.4 dB
Rejection	Below 3500 MHz >61 dB
	3500~3600 MHz >60 dB
	4400~4800 MHz >55 dB
Waveguide Flange Input	WR-229G
Waveguide Flange Output	WR-229F
Dimensions (LxWxH)	120 x 99 x 70mm
Weight	530g
Operating Temperature	-40~60C
Environmental	IP67
Drawing	
Typical Performance	

Specifications subject to change without notice.





Features

PAS C DUAL

- C Band Dual feedhorn
- Compact size
- Adjustable scalar ring

PAS FH SP

- C Band feedhorn
- Compact size
- Adjustable scalar ring

Feedhorn PAS C DUAL/ PAS FH SP

Specifications

Model	PAS C DUAL	PAS FH SP
Product	C Band dual feedhorn	C Band feedhorn
Frequency Range	3.4 ~ 4.3 GHz	3.7 ~ 4.2 GHz
F/D Range	0.33 ~ 0.45	0.33 ~ 0.45
Isolation	> 20 dB	30 dB
Return Loss	> 10 dB	18 dB Typical
RF Port	WR 229	WR 229
Temperature Range	-20°C ~ 65°C	-20°C ~ 65°C
Dimension (mm)	200(D) x 165(W) x 128(H)	165(D) x 165(D) x 115(H)

Specifications subject to change without notice.





Wide Band Splitter / Line Amplifier

Features

Wide Band Splitter

- All ports power pass
- Nickel plated zinc alloy die-cast
- Suitable for RF (5-1000MHz)
- IF (900-2150MHz) distribution
- Suitable for analog and digital signals
- All Port F-(f) connector, 75Ω
- Power pass max 1A, 30V
- Low insertion loss, high return loss and isolation for CATV, Satellite TV & MMDS
- Screening factor 55dB@2000MHz

Line Amplifier

- Nickel plated zinc alloy die-cast
- Designed for in line boosting satellite IF signal
- Power supply from the receiver via coaxial cable
- Power 15V 40mA
- 100mA power passing to LNB end
- All ports F-Connector, 75Ω

Specifications

Wide Band Splitters		PAS 1 x 2 WBM	PAS 1 x 4 WBM	PAS 1 x 6 WBM	PAS 1 x 8 WBM
Splitters Way		2 Ways	4 Ways	6 Ways	8 Ways
VSWR In	5 - 40 MHz	1.6	1.7	1.5	1.6
	40 - 1000 MHz	1.5	1.8	1.6	1.9
	1000 - 2050 MHz	1.5	2.0	1.6	2.1
	2050 - 2400 MHz	1.5	1.2	1.8	2.1
VSWR Out	5 - 40 MHz	2.0	1.8	1.5	2.5
	40 - 1000 MHz	1.3	1.4	1.6	1.4
	1000 - 2050 MHz	1.2	3.0	1.6	3.5
	2050 - 2400 MHz	1.4	3.5	1.8	3.9
Insertion Loss	5 - 40 MHz	4.7 dB	10.5 dB	13 dB	15 dB
	40 - 1000 MHz	5.2 dB	9.5 dB	12 dB	14 dB
	1000 - 2050 MHz	6.5 dB	12.5 dB	15.5 dB	16.5 dB
	2050 - 2400 MHz	7.0 dB	12.5 dB	18.5 dB	21 dB
Mutual Isolation	5 - 40 MHz	12 dB	16 dB	20 dB	19 dB
	40 - 1000 MHz	20 dB	20 dB	20 dB	20 dB
	1000 - 2050 MHz	20 dB	16 dB	20 dB	16 dB
	2050 - 2400 MHz	16 dB	16 dB	16 dB	16 dB

Line Amplifier	
Frequency Range	950 ~ 2400 MHz
Gain	20 dB
Noise Figure	≥ 6 dB
Return Loss	≥ 5 dB
Output Level (dBμV)	SAT: 110@35dB IMA ₃ ; Terr.: 105@60dB IMA ₅
Power Requirement	11 ~ 20 VDC, 40mA
DC Pass	Both direction

Specifications subject to change without notice.

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8xDVB-S2 to 4xDTMB Transmodulator

HDMODIF8D4

Features

- 8 x DVB-S/S2 RF and 1 x ASI input
- Input frequency: 950~2150 MHz
- Input symbol rate: 1~45 Msps
- 4 x DTMB RF output
- Output frequency: 47~870 MHz
- LCD / Keyboard control by front panel and network management by Ethernet

Specifications

Model		HDMODIF8D4
Input	RF	8 x tuner (DVB-S/S2) (950~2150 MHz)
	ASI	1 x ASI (BNC)
	Symbol Rate	1~45 Msps
	Interface	F-connector (75Ω impedance)
Output	Frequency Range	47~870MHz, 1Khz step
	Constellation	4 QAM-NR, LDPC 0.8
		4 QAM, LDPC (0.4, 0.6, 0.8)
		16 QAM, LDPC (0.4, 0.6, 0.8)
		32 QAM, LDPC 0.8
		64 QAM, LDPC (0.4, 0.6, 0.8)
	Carrier mode	Single carrier, multi carrier
	Interleaving	240,720
	Error-Correcting Codes	BCH/LDPC
	Frame Mode	420 fixed, 595 fixed, 945 fixed, 420 var, 945 var
	MER	≥35dB
	Output Level	75~100dBμV
	Level Attenuation Range	0dB~25dB(per carrier), 0.1dB step
General	Control	LCD / Keyboard, network management
	Size	482mm x 415mm x 44mm
	Temperature Range	0~45°C (Operation); -20~80°
	Power	100-240VAC, 50Hz, 25W

Specifications subject to change without notice.





Satellite Receiver 2000EIG

Features

- Meet DVB-S/S2, MPEG2 and MPEG4
- QPSK demodulation tune, low threshold
- Enhanced OSD (On Screen Display) screen
- Stores up to 2000 channel data
- The volume is adjustable and each program can have its own setting
- Power-off memory
- High-resolution picture and high fidelity digital stereo output
- Signal strength display for convenient dish installation and/ or adjustment
- SAP (Second Audio Program) stereo capable
- Teletext, DiSEqC, 13/18V power control function

Specifications

Model		2000EIG			
DVB-S/S2	Tuner Input	DVB-S/S2	Video	Standards	MPEG-2 MP@ML for SD
	Tuner Input Type	1 x F type female for Input		MPEG-2 MP@HL for HD	
		1 x F type female for loop through output		H.264/AVC MP@L3.0 for SD,HP@L4.1 for HD	
	Demodulation	QPSK /8PSK		VC-1 AP@L1 for SD,AP@L3 for HD	
	Frequency Range	950~2150MHz		AVS+	
	Input Impedance	750hm		Frame Frequency	25/50Hz
	InputLevel	-25~+65 dBuV		Resolution	Up to 1920 x 1080p(60Hz)
	Roll-off Factor	DVB-S:0.35		Bit Rate	MPEG-2 MP@ML: 2~15 M bps
		DVB-S2:0.2,0.25,0.35			MPEG-2 MP@HL: <19 M bps
	FEC Code Rate	DVB-S QPSK:1/2,2/3,3/4,5/6,7/8			MPEG-4 AVC HP@L3:<10 M bps
		DVB-S2 QPSK:1/2,3/5,2/3,3/4, 4/5,5/6,8/9,9/10	MPEG-4 AVC HP@L4: <20 M bps		
		DVB-S2 8PSK:3/5,2/3,3/4,5/6,8/9,9/10			
	LNB Polarity Selection Voltage	0,13V,18V selectable	Interface	Aspect Ratio	4:3 and 16:9
	LNB Band Selection Tone	0/22KHz selectable		Video Output	CVBS RCA x 2
	Satellite Selection Command	DiSEqC 1.0		Audio Output	2 pairs of RCA stereo(Audio Left/Audio Right)
Audio	Standard	MPEG 1 Layers 1, 2	HDMI	HDMI x 1, HDCP 1.4	
		(mono, dual channel, and stereo);	Power Supply	AC 90~256V 50Hz~60Hz 25W	
		MPEG-2 AAC-LC & MPEG4	Power Consumption	Max 25W	
		DRA	Temperature	Work Temperature: 5~45°C	
	Sampling Rate	32,44.1,48KHz		Storage Temperature: -10~65°C	
	Audio Output	mono, dual mono, stereo, joint stereo	Humidity	20~90%,non-condensed	
			Weight	2.5kg	
		Dimension	483mm x 270mm x 45mm		

Specifications subject to change without notice.





TV /FM/ DAB Antenna

Features

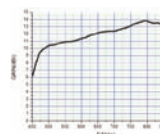
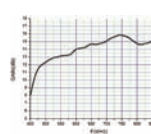
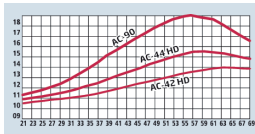
TV Antenna

- High quality extrusion aluminium antennas
- Click clack mechanism
- Directors robustly attached to the central axle
- Anti corrosion plastic
- Double large area reflector panel
- Stiff reflector elements
- Shielded "F" connector (75Ω), ideal against impulsive noise
- Suitable for FM/ DAB reception
- Shielded "F" connector, ideal against impulsive noise

FM / DAB Antenna

Specifications

TV Antenna	AC-44	AC90	BA50	BA60
Frequency Range	UHF (470-862MHz)	UHF (470-862MHz)	UHF (470-862MHz)	UHF (470-862MHz)
Channels	21 - 69	21 - 69	21 - 69	21 - 69
Directors	25	35	21	33
Max Gain (dB)	15.5	16-20	14	16
Beamwidth H/V	35 / 42	29 / 34	30 / 35	37 / 42
Front/Back Ratio	28	32	25	25
Polarization Adjustment	H - V	H - V	H - V	H - V
Windload (170Km/h)	138N	180N	---	---
Length (m)	1.29	2.36	1.274	1.489
Weight (Kg)	2.2	3.8	2.2	2.8



FM Antenna	AN6005U	Surge Arrester	SAFE 800
Elements	3	Frequency Band	0-2300 MHz
Frequency Range	FM (80-108 MHz)	Insertion Loss	0.2 dB
Max Gain (dB)	5-8	Return Loss	12 dB
Back/ Front Ratio	12	Impedance	75 Ω
Length	1.25 m	Connectors	F female
Cable Connection	75 Ω	DC Spark Over Voltage @ 100V/s	90 V
Output Connection	F Female	Impulse Spare-over Voltage @ 1 KV/μs	550V
Wind loading horizontal	63.8 N	Impulse Discharge Current 10 times	5 KA
Weight (Kg)	1.3	Insulation Resistance at 50 Vdc	>10 GΩhm
		DC pass	500 mA
		Dimensions (LxWxH)	105 x 110 x 55mm





Outdoor Antenna ODA-133

Features

- *Anti-UV coating and waterproof design, weather resistant specifically designed for outdoor use*
- *Excellent reception for Digital Terrestrial and Analogue TV Signal*
- *Uses amplification technique, with built-in low noise and high gain booster for best picture and sound reception*
- *Lightweight, compact size and easy to install*
- *Receives both Horizontal signal and Vertical signal*
- *Can be wall mounted, mast mounted or balcony mounted*

Specifications

Model	ODA-133
Frequency	UHF: 470~862 MHz
Gain Control (dB)	12.5 dB
3dB Beam width	± 42°
Polarization	Horizontal & Vertical
Connector	F connector female
Impedance	75Ω



Mast/Indoor Amplifier

AM6115K/AM6140/AM6210KE/AM6212

Features

Made In Europe

40dB Mast Amplifiers:

- AM6212 • Mast amplifier 2 inputs UHF (40 dB) - VHF (25 dB)
- AM6115K • Mast amplifier 3 inputs UHF (40 dB) UHF (40 dB) - I/III (30 dB) - FM (20)

30dB Mast Amplifiers:

- AM6210KE • Mast amplifier 2 inputs UHF (30 dB) - FM (25 dB)
- with weatherproof case for outdoor installation

Indoor Amplifiers:

- AM6140 • Indoor Amplifiers 2 RF outputs V+U (U-25dB, V-15dB)
- GainU: 220Vac 12dB, GainV: 9dB,
- Output: 90dBμV, F connector

Power Supply For Mast Amplifiers:

- AL6121 • Power supply for 40 dB mast amplifiers 24 V - 120mA (2 RF Outputs)

Specifications

Model	AM6115K	AM6140	AM6210KE	AM6212
Frequency	40~108 MHz, 160~230MHz, 460~862MHz	47~862MHz	87~108MHz (FM) 470~862MHz (UHF)	47~862MHz
Inputs	3	1	2	2
Output	2	2	1	1
UHF Input Gain (dB)	40	25	30	40
VHF Input Gain (dB)	30 (I/III)	15	---	25
FM Input Gain (dB)	25	---	25	---
Output Level (dBμV)	102	101	100	110
Connection	"F" Connector	"F" Connector	"F" Connector	"F" Connector
Impedance (Input & Output)	75Ω	75Ω	75Ω	75Ω
Type Noise Factor (dB)	FM, VHF: <4, UHF: <2	VHF: <2.5, UHF: <3	---	---
Power Consumption (Max)	3.5W	3.5W	3.5W	3.5W
Power Voltage	220V	220V	220V	220V

- AM6115K: AM6115+AL6121 Kit Amp



Features

Made In Europe

AT420

UHF TV DUAL Channel Amplifiers

- TV channel amplifiers tunable in UHF range
- SAW filters provide a high selectivity processing of digital and analog channels
- Each section has a built-in AGC system and independent regulator of output level
- Built-in indicators and push buttons allow operatively to set required parameters
- DIN rail or wall mounting
- Robust die-cast housing

MA400

Multiband System Amplifier

- FM, BIII & DAB and UHF inputs
- High output level
- Built-in gain controls
- DIN rail or wall mounting
- Robust die-cast housing

UP410S

Power Supply

- Modular power supply with integrated RF combiner
- Switch-mode technology
- Short circuit and overload protected
- Robust die-cast housing

Modular Headend System EH400 Series

Specifications

AT420 UHF TV DUAL Channel Amplifiers		
RF Input	Sections	2
	Tuning Range of Channels	470 ~ 862 MHz
	TV Standard	analog (G, K, I, NZ) DVB-T* / DTMB
	Channel Bandwidth	8 MHz 8 MHz
	Level / Impedance	60-85 dBμV/75 Ω 50-80 dBμV/75 Ω
	Frequency Range of RF Distribution	47-862 MHz
	Loop Through Gain	0 ± 1.5 dB
	Return Loss	>12 dB
	Level / Impedance, Typical	90 dBμV /75 Ω 85 dBμV/75 Ω
RF Output	MER of DVB-T Signal	--- ≥ 36 dB (input signal MER 38 dB)
	Frequency Range of RF Combining	47 ~ 2150 MHz
	DC Pass Through	0.3 A
	Combining Through Loss Terr/SAT	1.5/2.5 dB
	Level Adjustment Range	0 ~ -10 dB by 1 dB step
	Return Loss	≥10 dB
General	Noise Figure	8 dB
	Selectivity, Typical	40 dB, ±1.25 MHz from 8 MHz bandwidth border
	Offset	±1 MHz by 0.25 MHz step
	Spurious Signals Level	≤ -60 dBc
	Mirror Channel Selectivity	≥ 60 dB
	Flatness of Channel Bandwidth, Typical	± 1.5 dB
	Connector	F type
	DC Feeding for External	12V 0.1A max.
	Current Consumption	12V 0.45A
	Operating Temperature Range	0 ~ +50C
	Dimensions / Weight (packed)	36 x 198 x 107.5 mm / 0.9 kg

MA400 Multiband System Amplifier		
Gain	FM (88-108 MHz)	30 dB
	VHFIII (174-260 MHz)	30 dB
	UHF (470-862 MHz)	30 dB
Number of Inputs		3
Noise Figure		< 7 dB; UHF < 5 dB
Maximal Output Level		VHF 116 dBμV;
IMD3=60 dB (DIN45004B)		UHF 118 dBμV
Gain Control	Attenuator	0 ~ -15 dB
	Switch	0/-10 dB
Return Loss		> 10 dB
Connector		F type
DC Feeding for External (Total)		12V 0.1 A max.
Current Consumption		12V 0.48 A
Operating Temperature Range		0 ~ +50 C
Dimensions / Weight (packed)		36x198x107.5 mm / 0.9 kg

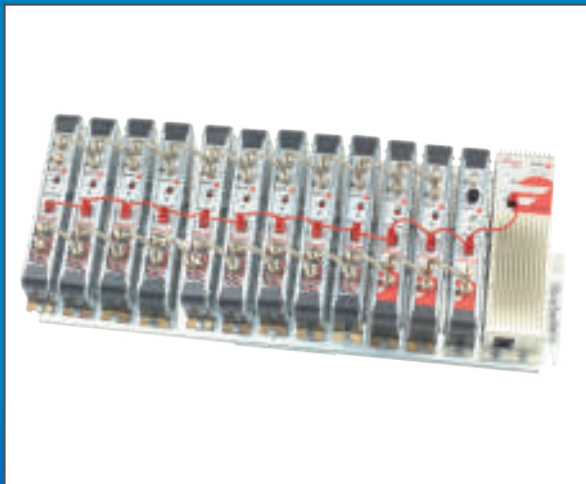
UP410S Power Supply		
Power Supply	Input Voltage	187~250 V~ 50/60 Hz
	Output Voltage, Current	12V 4.5 A max.
	Power Consumption	65 W max.
RF Combiner	Frequency Range	47~2400 MHz
	Insertion Loss	4 dB at 862 MHz
		6 dB at 2400 MHz
	Isolation	≥ 20 dB
Other	Return Loss	≥ 20 dB at 862 MHz
		≥ 12 dB at 2400 MHz
	Operating Temperature Range	0 ~ +50 C
	Dimensions	48 x 198 x 107.5 mm
Weight (packed)		0.97 kg

* The offset is used for fine tuning of the channel frequency response

pr. Software control

** Without external DC loading

Specifications subject to change without notice.



Features

Made In Europe

- Exceptional selectivity and high output level
- Constant output level within the input operative range,
- maintaining the quality of the signal
- High shielding degree, metal chassis (zamak) with
- "F" connectors

Modular design the allows channel configuration according to installation needs

Easy to set-up due to its system of splitting at input and combining at output

Fagor AGC Channel Amplifier Nexum 645 Series

Specifications

Model	Nexum 645 Series
Channels	21...69
Max. Output Level	125 dBuV
Max. COFDM Output Level (dBμV)	118 IMD3 ~ 35dB
Gain	53 dB
Manual Output Regulation	20 dB
Operative Input Rang	65...95 dBμV
AGC Range	30 dB (65 ~ 95 dBμV)
Min. Input Level	45 dBμV
Bandwidth	8MHz
Selectivity (dB)	30 fcN ± 8MHz
	60 fcN ± 16MHz
	70 fcN ± 24MHz
Return Losses	9 dB
Noise Figure	11 dB (7 when using ABF 012 at the input)
Operating Temperature	-10 °C ~ 60°C
Operating Humidity	Up to 98%
Impedance (Input & Output)	75 Ω



Fagor Channel Conversion CIF 6000+A/D

Features

Made In Europe

- The built-in AGC circuit keeps a stable output level
- Enables the conversion of any input channel, in any output channel, eliminating the incompatibilities between channels
- It allows output signal total disconnection
- Incorporates a LED with input level information
- It also offers the possibility of fine tuning the output channel frequency to disperse intermodulation products in installations with many channels
- Screws and power supply cable included

Specifications

Model	CIF 6000+A/D
Input/Output Connectors	F Type
Input Frequency	47 ~ 862MHz
Input Fine Tuning	± 4.5 MHz (In steps of 250KHz)
Input Level	65~90 BμV analog, 55~80 BμV digital
AGC	>30 dB
Noise Figure	<9 dB
Output Level Adjustable	75~90dBμV analog, 65~80dBμV digitale
VSB Output Frequency	E21...69
Phase Noise	83dBc / Hz@10KHz 102dBc / Hz@100KHz
Output Fine Tuning	± 4.5KHz (In steps of 125KHz analog, 166KHz digital)
Spurious in Band	-54dBc
Carrier Accuracy	± 30KHz
Carrier Stability	± 20KHz
Output Level Stability	± 2dB
Channel Flatness	± 1dB
Image Frequency Rejection	60dB
Input Channel Rejection at output	60dB
Through Losses at input	± 1dB
Through Losses at output	1.5dB (47 ~ 862 MHz)
Adjacent Channel Rejection	>55dB

Specifications subject to change without notice.



Features

Made In Europe

- Read-out of input level strength: no need for field strength meter
- Can process and convert more than 50 channels
- Sharpest filters on the market (50 dB on adjacent channels)
- Real-time AGC on all individual multiplexes
- Complete flexibility in assigning filters from any input
- Made in Europe, for worldwide application

Programmable Channel Converter CENTURY CC1

Specifications

Model	CENTURY CC1
Inputs	4 VHF/UHF + 1 FM
Outputs	1 main (FM - VHF - UHF) + 1 test port (-30db)
Frequency Range	FM: 88 - 108MHz, VHF: 174 - 240MHz, UHF: 470 - 862MHz
LTE Protection	Automatic selection: 694, 790 or OFF (MHz)
Input Level	FM: 37 - 77dBμV, VHF: 40* - 109dBμV, UHF: 40* - 109dBμV
FM Output power (60dB/IM3)	113 dBμV
VHF/UHF Output power (60dB/IM3)	120 dBμV
VHF/UHF Output power (35dB/IM3)	131dBμV
VHF/UHF Output power with 1 MUX	118dBμV
VHF/UHF Output power with 6 MUX	113dBμV
Conversion	Yes (from any VHF-UHF channel to any VHF-UHF channel)
Gain	FM: 35 dB , VHF: >45 dB, UHF: >55 dB
Noise Figure	<7 dB
Gain Adjustment: FM/VHF/UHF	20db Channel AGC
General Attenuator	15dB
Slope Adjustment	8dB
Selectivity	35dB / 1MHz
Output MER	VHF: 35dB, UHF: 35dB
ESD Protection	All inputs
Remote Voltage for Preamp	12 or 24V
Remote Current	100mA(total for the 4 inputs)
SD Port	Yes (for copy configuration and upgrade features)
Operating Temperature	-5 to +50°C
Power Supply / Power Consumption	100 - 240Vac / 16W
Dimensions / Weight	220mm x 165mm x 55mm / 0.8kg

*For 64QAM with code rate 3/4



HDTV IRD / Processor DCH-5500P

Features

- Variety of input options DVB-T2/S2/S/C/T/DTMB/ATSC/ISDB-T, DS3/E3, TS/IP and ASI
- Supports DVB-S2 Input Stream Identifier (ISI, optional) and DVB-T SFN MIP pass through
- Redundant backup among Tuner, ASI and TS/IP with configurable priority
- 4:2:0 and 4:2:2 (optional) of SD/HD MPEG-2 and MPEG-4 AVC/H.264 digital video decoding
- Up to 8 Audio PIDs decode or pass through (compressed) in SDI output
- Up to 6 Audio PIDs decode or pass through (compressed) in AES output
- Multiple Analog and Digital Outputs, ASI, CVBS, HDMI, SD/HD-SDI, AES/EBU Audio, TS/IP
- Built-in TS re-multiplexer receives from ASI, Tuner and TS/IP Inputs
- 2 x DVB-CI Slots, multi-program decryption, BISS-1 and BISS-E decryption
- Frame synchronizes the IRD to the external black and burst reference
- Dynamic PMT detection and automatic updating
- Supports VBI TELETEXT, EBU/DVB Subtitle, Closed Caption, and can be embedded in SDI
- UDP/RTP, Unicast/Multicast, and double full duplex SPTS/MPTS over IP
- Remote Control and Supervision by SNMP, HTTP WEB and Proprietary HDMS software
- One alarm Relay with D-sub 9 male connector
- On Site software update through IP and USB
- RSSI, received Eb/No & BER monitoring
- 1.5" TFT LCD on front panel for monitoring
- Hot-swappable redundant power supply

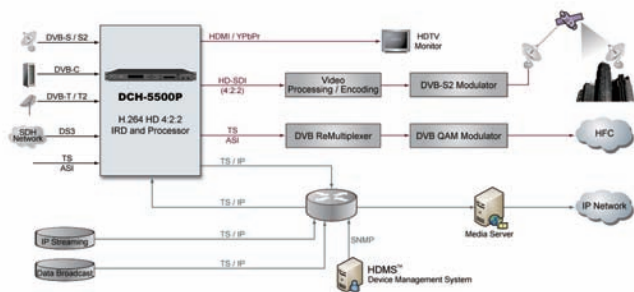
Specifications

Model		DCH-5500P	
DVB-S/S2 Tuner Input (ISI Factory Optional)	Connector Type	1 x F type female 75Ω for Input, 1 x F type female 75Ω for loop through output	DTMB Tuner Input
	Input Frequency Range	950~2150MHz	Input Frequency Range
	Input Level	-25~-65dBm	Input Level
	Symbol Rate	2~45MBaud	Symbol Rate
	Roll-off Factor	DVB-S QPSK: 0.35	Bandwidth
	FEC Code Rate	DVB-S2 8PSK: 0.35, 0.25, 0.2	Constellation
		DVB-S QPSK: 1/2, 2/3, 3/4, 5/6, 7/8	Guard Interval
		DVB-S2 QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10	Roll-off Factor
	LNB Polarity Selection Voltage	DVB-S2 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10	Interleaving Depth
		0, 13V, 18V selectable	FEC Code Rate
DVB-C Tuner Input	LNB Band Selection Tone	0/22KHz selectable	Connector Type
	Satellite Selection Command	DiSeqC 1.0	Input Frequency Range
	ISI ID	1~255 user configurable	Input Level
	Connector Type	1 x F type female 75Ω for Input, 1 x F type female 75Ω for loop through output	Symbol Rate
	Input Frequency Range	51~862MHz	Constellation
	Input Level	51~75dBμV	Roll-off Factor
	Symbol Rate	1~7MBaud (ITU J.83 Annex A)	Bandwidth
	Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM	Connector Type
	Bandwidth	6MHz, 7MHz, 8MHz	Standard
	Input Return Loss	7dB (typ.)	Input Bit Rate
DVB-T/T2 Tuner Input	Connector Type	1 x F type female 75Ω for Input, 1 x F type female 75Ω for loop through output	ASI Input 1
	Input Frequency	104~862MHz (VHF/UHF)	Connector Type
	Input Level	-20~-70dBm	Standard
	Constellation	DVB-T: QPSK, 16QAM, 64QAM	Input Bit Rate
	Bandwidth	DVB-T2: QPSK, 16QAM, 64QAM, 256QAM,	Connector Type
		6MHz, 7MHz, 8MHz	Standard
	FFT Mode	DVB-T: 2K, 8K	Frame Structure
	Guarding Interval	DVB-T2: 1K, 2K, 4K, 8K, 16K, 32K	Bit Rate
		DVB-T: 1/4, 1/8, 1/16, 1/32	Connector Type
	FEC Code Rate	DVB-T2: 1/4, 5/32, 1/8, 5/64, 1/16, 1/32, 1/64, 1/128	Effective Bit Rate
DVB-T2 Tuner Input	Guarding Interval	DVB-T: 1/2, 2/3, 3/4, 5/6, 7/8	Protocol
		DVB-T2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6	
	Input Return Loss	7dB (typ.)	
	FEC Code Rate		
	Guarding Interval		
	FEC Code Rate		
	Input Return Loss	7dB (typ.)	

Continue to next page

Specifications subject to change without notice.

Model		DCH-5500P	
TS Processing	TS Input Management	Demux and Remux among Tuner / DS3(optional) / E3 (optional), ASI and TS/IP Inputs	Analog video Output
	TS Output Management	Demux and Remux for 2 independent ASI outputs	
	Service and PID Management	Remux, filtering and remapping	
	PSI/SI	PSI/SI table regeneration, NIT and SDT edition, LCN Edition and Re-generation	
	Descrambler	DVB Common Scrambling Algorithm (CSA)	
	BISS Mode	BISS-1, BISS-E	
	Common Interface	Double PCMCIA slots, compatible with major CA CAMs in the market	
ASI Output	Connector Type	2 pairs of BNC female, 75Ω	Analog Audio Output
	Standard	DVB-ASI, EN50083-9	
	Output Bit Rate	≤ 200Mb/s	
	TS Processing	2 Independent TS Re-multiplexed from tuner, TS/IP and 2 ASI inputs	
HDMI Output	Standard	1 x HDMI 1.3 interface (up to 1080i)	Auxiliary Data Processing
	Video Resolution and Frame Rate	1080i x 30, 1080i x 29.97, 1080 x 25, 720p x 60, 720p x 59.94, 720p x 50, 480p x 60, 576p x 50, 576i x 25, 480i x 29.97	
Video Decode	Audio Embedded	1 x stereo	Redundancy
	Video Profile/Level	MPEG-2(MP@ ML for SD, MP@HL for HD), Main Profile(MP) 4:2:0 8-bit, High Profile(HP) 4:2:2 8-bit, MPEG-4/H.264 AVC Part 10 (MP@L3 for SD, HP@L4.1 for HD), High-422(Hi422P) 4:2:2 8/10-bit, High-10(Hi10P) 4:2:0 10-bit, High (HiP) 4:2:0 8-bit, Main (MP) 4:2:0 8-bit, Constrained Baseline (CBP) 4:2:0 8-bit, High 10 Intra Profile (AVC-I 50) 4:2:0 10-bit, High 4:2:2 Intra Profile (AVC-I 100) 4:2:2 8/10-bit	
	Audio Format	MPEG-1 Layer 2	
		Dolby Digital (AC3)	
	Dolby Digital Plus(AC3+)	a. 5.1 down-mix to 2.0 (Stereo, Dual Mono, Left, Right)	
		b. Dolby Digital Audio Pass-through	
	Dolby E	a. 5.1 down-mix to 2.0 (Stereo, Dual Mono, Left, Right)	
		b. Dolby E Audio Pass-through	
	MPEG-2 AAC	a. 5.1 down-mix to 2.0 (Stereo, Dual Mono, Left, Right)	
		b. 2.0 (Stereo, Dual Mono)	
	MPEG-4 HE-AAC v1/v2	a. 5.1 down-mix to 2.0 (Stereo, Dual Mono, Left, Right)	
Digital Video Processing	Connector Type	2 x BNC female, 75Ω	Control & Monitoring
	SDI Video Resolution	1080p x 59.94, 1080p x 50, 1080i x 30, 1080i x 29.97, 1080i x 25, 720p x 60, 720p x 59.94, 720p x 50, 720p x 29.97, 720p x 25, 576i x 25, 480i x 29.97	
HD/SD-SDI Output	Video PID Bit Rate	≤ 60Mb/s	Other
	Connector Type	1 pair of BNCs (mirrored), female, 75Ω (1 pair of BNCs can be configured as ASI Output-3)	
Genlock	SD Standard	SMPTE 259M, 270 Mb/s (10bit)	Certification
	HD Standard	SMPTE 292M, 1.485 Gbit/s (10bit)	
Digital Audio Processing	Level	800mV p-p	EMC:
	Connector Type	1 x BNC female, 75Ω	
	Input Signal	Analog SD (black & burst)	
	Connector Type	2 x D-sub 9 male with XLR adaptor cables and 6 x BNC female 75Ω	
	Number of Output	8 x audio PIDs are decoded or passed through	
Digital Audio Processing	Nominal Output Level	1V p-p (with standard test stream)	FCC:
	Output Format	SDI (Embedded Audio), AES	
	Load Impedance	AES1~AES2: 2 x D-sub9, 110Ω (with XLR adaptor cables) AES3~AES8: 6 x BNC, 75Ω	
Digital Audio Processing	Connector Type	2 x D-sub 9 male, with XLR adaptor cable	LVD:
	Output Mode	Left, Right, Dual Mono, Stereo	
Digital Audio Processing	Number of Output	2 pairs of stereo audio outputs (2 Audio PIDs or 4 channels are decoded)	Signal to Noise Ratio
	Cross Talk Among Channels	>70dB	
Digital Audio Processing	THD	<0.3% @ 400Hz, 1KHz test tone	Connector Type
	Frequency Response	±0.5dB over 20Hz ~ 18KHz	
Digital Audio Processing	Output Level	0dBm in 600Ω (0dBu), adjustable range±10dB	Output Impedance
	Subtitle	DVB, EBU	
Digital Audio Processing	VBI	Teletext, WSS	Output Mode
	Closed Caption	EIA 608, EIA 708, EIA 608-to-708	
Digital Audio Processing	Redundancy Port	Among Tuner, ASI input and	Switching Condition
	Switching Condition	TS/IP inputSwitching Condition TS Sync Loss	
Digital Audio Processing	Switching Mode	Main, Spare	Connector Type
	Connector Type	2 x D-sub 9 male	
Digital Audio Processing	Switching Condition	User Defined	Remote Control
	Connector Type	1 x RJ-45, 10/100 Base-T, for equipment IP Control	
Digital Audio Processing	Local Control	LCD display and Front control 6-key keypad	Monitoring
	Monitoring	1.5" TFT LCD monitor	
Digital Audio Processing	Serial Port	1 x RS-232 D-sub female, for debug use only	Equipment Upgrade
	Equipment Upgrade	Embedded FTP loader, Telnet and USB	
Digital Audio Processing	Dimension	1U 19" Full-rack size	Power Supply
	Power Supply	AC 90V~250V, 50/60Hz	
Digital Audio Processing	Power Consumption	24W (exclusive of LNB power)	Operating temperature
	Operating temperature	0~45°C	
Digital Audio Processing	Storage temperature	-10~60°C	Operating Humidity
	Operating Humidity	10~90%, non-condensed	
Digital Audio Processing	EMC:	EN 55024:1998+A1:2001+A2:2003, EN 55022:2006+A1:2007, EN 61000-3-2:2006, EN 61000-3-3:2008	FCC:
	FCC:	Part 15 Class B	
Digital Audio Processing	LVD:	EN 60950-1:2006 + A11:2009	LVD:





Features

- Integrated encoder and modulator
- 4 CVBS / 8 CVBS / 12 CVBS + Audio
- DTMB RF out
- RF Range: 30-960MHz
- Keyboard+LCD control and network management

4/8/12 AV in DTMB Encoder Modulator HDMODEN-XV

Specifications

Model		HDMODEN-4V	HDMODEN-8V	HDMODEN-12V
Video Encoding	Input	4 x (BNC x 3), 4 x CVBS, level 1.0 Vp-p	8 x (CVBS x 3), RCA interface, level 1.0 Vp-p	12 x (CVBS x 3), RCA interface, level 1.0 Vp-p
	Video Coding	MPEG-2	MPEG-2/H.264	
	Resolution	720 x 576 (PAL); 720 x 480 (NTSC)	720x576 (PAL); 720x480(NTSC)	
	Bit Rate	1-20Mbps, adjustable per channel	1.0~15Mbps continuously adjustable per channel	
Audio Encoding	Encoding	MPEG-1, Layer 1/2		
	Sampling	32, 44.1, 48kHz		
	Code Rate	64, 128, 192, 256, 384kbps		
Modulator	Output	DTMB RF, F connector		
	Format	DTMB- GB20600-2006		
	DTMB Modulation	Frequency	36-900MHz, 1kHz step	
		Constellation	4QAM-NR, 4 QAM 16QAM, 32 QAM, 64QAM	
		Interleaving	240, 720	
		Output level	70~90dBuV	
		Frame Mode	420 fixed , 595 fixed, 945 fixed, 420 var, 945 var	
		MER	>35dB	
		FEC	0.4, 0.6, 0.8	
General	Dimension	483 x 410 x 44mm		
	Operating temperature	5~45℃		
	Storage temperature	-20~80℃		
	Power	AC100~240V, 50Hz, 25W		



Features

- Fully compliance with OFCA DTT standard and National
- Standard GB20600-2006
- Integrated Encoder and modulator
- 4 or 8 HDMI inputs (HDMODEN-4Hi or 8Hi)
- 2 DTMB RF output (HDMODEN-8Hi)
- RF output- 36-900MHz
- Front panel LCD and remote NMS operation
- Economical encoder modulator (supports upto 1080i only)

4/8 HDMI in DTMB Encoder Modulator HDMODEN-XHi

Specifications

Model		HDMODEN-4Hi	HDMODEN-8Hi
Video Encoding	Input	HDMI x 4 (HDMODEN-4Hi)	HDMI x 8 (HDMODEN-8Hi)
	Video Coding	4:2:0 encoding H.264 HP" L4 MP" L3 H.264 Adaptive Field Frame (AFF) H.264 Field Based (FB) Full HD: 1920x1080i (50/60Hz) ISO/IEC14496-10 (H.264/MPEG-4 AVC)	
	Resolution	576i/p, 720p, 1080i, (50/60Hz)	
	Bit Rate	1-15Mbps, adjustable per channel	
Audio Encoding	Input	HDMI x 4 (HDMODEN-4Hi), HDMI x 8 (HDMODEN-8Hi)	
	Encoding	MPEG-1, Layer 1/2	
	Sampling	32, 44.1, 48kHz	
	Code Rate	64, 128, 192, 256, 384kbps	
Modulator	Output	DTMB RF, F connector	
	Format	DTMB- GB20600-2006	
	DTMB Modulation	36-900MHz, 1kHz step	
		4QAM-NR, 4 QAM 16QAM, 32 QAM, 64QAM	
		240, 720	
		80-110dBuV	
General	Dimension	420 fixed, 595 fixed, 945 fixed, 420 var, 945 var	
	Operating temperature	483 x 410 x 44mm	
	Storage temperature	5~45°C	
	Power	-20~80°C	
		AC100~240V, 50Hz, 25W	



4 HDMI in DTMB Encoder Modulator HDMODEN-4H

Features

- Fully compliance with OFCA DTT standard and National
- Standard GB20600-2006
- Integrated Encoder and modulator
- 4 HDMI inputs
- RF output- 36-900MHz
- Front panel LCD and remote NMS operation
- Compact: 19" 1U standard rack mount

Specifications

Model		HDMODEN-4H
Video Encoding	Input	HDMI x 4
	Video Coding	4:2:0 encoding H.264 HP" L4 MP" L3 H.264 Adaptive Field Frame (AFF) H.264 Field Based (FB) Full HD: 1920x1080i/p (50/60Hz) ISO/IEC14496-10 (H.264/MPEG-4 AVC)
	Resolution	576i/p, 720p, 1080i/P, (50/60Hz)
	Bit Rate	1-20Mbps, adjustable per channel
Audio Encoding	Input	HDMI x 4
	Encoding	MPEG-1, Layer 1/2
	Sampling	32, 44.1, 48kHz
	Code Rate	64, 128, 192, 256, 384kbps
Modulator	Output	DTMB RF, F connector
	Format	DTMB- GB20600-2006
	DTMB Modulation	Frequency
		Constellation
		Interleaving
		Output level
		Frame Mode
		MER
General	Dimension	483 x 410 x 44mm
	Operating temperature	5~45°C
	Storage temperature	-20~80°C
	Power	AC100~240V, 50Hz, 25W

Specifications subject to change without notice.



Features

- Supports output resolutions up to 1080 60p
- Easy to use color LCD panel and 6 key buttons
- Small size and Light weight
- Support wall-mount type
- Good ventilation for the device
- Install multiple units onto your TV system
- Support DTMB / DVB-T

HDMI TV Modulator DMODHM2

Specifications

Model		DMODHM2	
Standard	Standard	DVB-T	DTMB
	Bandwidth	6M, 7M, 8M	8M
	Constellation	QPSK, 16QAM, 64QAM	GB20600-2006
	Code rate	1/2, 2/3, 3/4, 5/6, 7/8	
	Guard interval	1/4, 1/8, 1/16, 1/32	
	FFT	2K, 8K	
Encoding Video	Encoding	MPEG4 AVC/H.264	
	Interface	HDMIx1	
	Resolution Input	720@50p, 720@60p, 1080@50i/p, 1080@60i/p	
	Resolution Output	Max. 1080@60p	
	Bit rate	Max. 25Mbps	
Encoding Audio	Encoding	MPEG-1 Layer2, AAC	
	Sample rate	48KHz	
System	Management	LCD + Control buttons	
	Language	English	
	Upgrade	USB	
	Basic	Standard/CH Number/LCN/CH Name/FHD Output/RF Atten	
Modulator	MER	Typ. 35dB	
	RF range	100-950MHz, 1KHz step	
	RF output level	100dBμV(25dB Attenuation)	
General	Power supply	12V1A	
	Dimensions	128 x 77 x 28mm	
	Weight	260g	

** Output upto 720P only

Specifications subject to change without notice.



Features

Made In Europe

- **HDMI to HDTV modulator (upto 1080p)**
- **Supports Multi digital TV standard: DTMB, DVB-T, DVB-C**
- **ATSC-T, ATSC-C**
- **RF output supports upto 1218MHz**
- **Easy to use menu structure, in combination with rotary/ push button**

Supports LCN insertion

Supports Channel name edit

Small compact size that can place anywhere

HDMI Modulator DMOD1200MS

Specifications

Model		DMOD1200MS				
HDMI Input	Video Resolution	576i up to 1080p				
	Video Encoding	H264/AVC				
	Audio Encoding	MPEG1 Layer II / AAC				
	Connector Type	HDMI Type A				
RF In	Frequency (MHz)	5 - 1218				
	Loss to RF Output (dB)	2				
	Input Interface	F, 75Ω				
RF Out	Modulated Channel Frequency (MHz)	100-1218				
	Output Level (dBμV)	59-99 (adjustable)				
	MER (dB)	Typ. 38				
	Output Interface	F, 75Ω				
Output Settings	Output Standard	DVB-T	DVB-C	ATSC-T	ATSC-C	DTMB
	Bitrate (Mbps)	2 - 23	2 - 23	2-15	2 - 23	2 - 23
	Channel Bandwidth (MHz)	6,7 or 8	2 to 8	6	6	8
	Constellation	COFDM (QPSK/ 16QAM/ 64QAM)	16QAM 32QAM 64QAM 128QAM 256QAM	8VSB	64QAM 256QAM	QPSK QAM-4NR 16QAM 32QAM 64QAM
	Other Settings	Code rate Guard Interval 2K-8K	---	---	---	Interleave Code rate Sync frame
Other	Basic Configuration	Country / Output Type / Output Frequency / Output Level / LCN / Channel Name				
	Advanced Configuration	RF / Video & Audio / SID / PMT, VPID, APID / NIT, ONID / PDS / TS ID				
	Power	Input Voltage: 12 VDC / Consumption: 5 W Typ. (6 W max.) / Jack Ø 2.1 mm				
	Dimensions	155 x 120 x 60 mm				
	Weight	0.6 kg				
	Accessories	12 V power adapter				

Specifications subject to change without notice.



Features

- Easy to use menu structure, in combination with push button
- Small compact size that can place anywhere

HDMI TV Modulator DMODAV1

Specifications

Model			DMODAV1
Encoding Section	CVBS IN Video	Encoding	MPEG2
		Resolution	PAL, NTSC
		Bit rate	VBR (Max. 19 Mbps)
	CVBS IN Audio	Encoding	MPEG1 Layer II
		Resolution	48KHz
	Input Interface / Impedance		RCA, 75Ω
Modulator Section	Standard		DTMB (GB20600-2006)
	MER		35 dB
	RF range		54-862MHz, Ch no(C1-C52, E21-E69)
	RF output level		100 dBμV
	Output Interface / Impedance		F, 75Ω
General	Power supply		DC12V 1A
	Dimensions		150x115x32 mm (LxWxH)
	Weight		420g
	Operation temperature		0-50 degrees C



Features

- Multiple video resolution including 1080i, 720p, 576i and 480i
- Multiple inputs HDMI, YPbPr and CVBS for encoding (Single channel model only)
- HD-SDI input option available
- 4 Channel input model available (HDMI x 4 or HD-SDI x 4)
- H.264 Encoding, less bandwidth required
- ASI output

HDTV H.264 Encoder HDENCXX-U

Specifications

Model		HDENCXX-U				
HDMI	Format	Support 720P, 1080i, (50/60Hz)		DVB ASI Output Interface	Interface	DVB ASI standard
	Connector	HDMI			Connector	BNC
YPbPr	Format	Support 720P, 1080i, (50/60Hz)		DVB ASI Output Interface	Impedance	75
	Connector	BNC			Package Format	188 byte
	Impedance	75 Ω, unbalance			Data Bit Rate	1 - 20 Mbps
HD-SDI	Format	Support 720P, 1080i, (50/60Hz)		Encoding	Video	H.264, High profile level 4.0
	Connector	BNC			Output Bit Rate	1 - 20 Mbps
	Impedance	75 Ω, unbalance			Audio	MPEG1 & II layer, CD quality
CVBS	Format	NTSC(525/60), PAL(625/50) selectable		NMS	Format	DVB transport stream (TS)
	Connector	BNC			Ethernet interface	IEEE802.3, RJ45 connector
	Impedance	75 Ω, unbalance		Physical Parameters	Protocol	UDP / IP
	Frequency	25Hz - 5.75MHz			Operating Temperature	5°C - 45°C
	Level	1.0Vp-p			Storage Temperature	-15°C - 55°C
	Quantization	8 bits, CCIR-601			Humidity	10 - 75%
	Sampling	27 MHz			Power	AC90 - 250V, 50Hz
					Consumption	25 W
					Dimension	483 x 410 x 44 mm
					Weight	4.5 ka

Model	HDMI	YPbPr	CVBS	HD-SDI
HDENC11-U	✓	✓	✓	
HDENC11-U (SDI)	✓	✓	✓	✓
HDENC41-U-HDMI	x 4			
HDENC41-U-SDI				x 4



TV Modulator VSB MOD862VSB

Features

Made In Europe

- Frequency agile vestigial sideband TV modulators
- LED display and push buttons control of internal microprocessor
- Non-volatile channel memory
- PLL crystal stabilization of carriers frequency
- Adjustable RF output level and audio input level
- Loop through RF combining
- Low level harmonics and intermodulation products
- Built-in test pattern generator
- Die-cast housing
- Connectors: Video/audio - type RCA socket, RF - type F
- Standards: B/G/D/K/Au/I/L

Specifications

Model		MOD862VSB
Video Input	Frequency range	20 Hz - 6 MHz
	Input Interface	RCA, 75Ω
Audio Input	Level / impedance	1 V ± 0.1 V/75 Ω
	Frequency range	20 Hz - 15 kHz
	Level adjustment	0 ÷ 7 dB
RF Output	level / impedance	775 mV / 10 kΩ
	Level (typical) / impedance	95 dBμV / 75 Ω
	Level adjustment	0 ÷ -15 dB
	Output channels according channels charts pr.	B/G/D/K/Au/I/L
	Frequency range pr.	45-862 MHz
	Output Interface	F-type, 75ohm
Sound Subcarrier Frequency pr.		5.5 MHz, 6.0 MHz, 6.5 MHz
Fine Tuning Range of Video Carrier Frequency pr.		± 2.25 MHz max. by 0.25 MHz step
Combining Through Loss		2.5 dB
Frequency Range of RF Combining		45-862 MHz
A/V Ratio pr.		12/16 dB
Amplitude Modulation Depth, Typical		81 %
Signal / Noise Ratio, Weighted		≥ 55 dB
II, III order Intermodulation Distortion		< -60 dB
Power Consumption		230 V~ 50/60 Hz 5.5 W
Operating Temperature Range		-10°C ÷ +50°C
Dimensions		135 x 180 x 52 mm
Weight (Packed)		0.74 kg

pr. Software control

Specifications subject to change without notice.



TV Modulator DSB MOD 47862DSB

Features

Made In Europe

- Frequency agile double sideband TV modulators
- Non-volatile channel memory
- PLL crystal stabilization of carriers frequency
- Adjustable audio input level
- Loop through RF combining
- Whole TV range covered by one module
- Internal pattern generator
- Connectors: Video/Audio - type RCA socket, RF- F type

Specifications

Model		MOD47862 DSB
Standards		PAL, B, G, I, NTSC
RF output	Frequency range <i>pr.</i>	47 - 84 MHz, 170 ~ 300 MHz, 470 - 862MHz
	Level / impedance	100dBμV / 75Ω
	Level adjustment	0 ~ 15 dB
Video Input	Frequency range	20Hz ~ 6 MHz
	Level / impedance	1V ± 0.1 V/75Ω
Audio Input	Frequency range	20 Hz - 15kHz
	Level / impedance / deviation	775 mV RMS / 10kΩ / 50kHz
Sound Subcarrier	<i>pr.</i>	5.5 MHz, 6.0 MHz, 6.5 MHz
Fine Tuning Range of Video Carrier Frequency	<i>pr.</i>	± 2.25 MHz max. by 0.25 MHz step
Combining Through Loss		2.0dB
Frequency range of RF Combining		47 ~ 862 MHz
A/V Ratio, Switchable	<i>pr.</i>	12 / 16 dB
Amplitude Modulation Depth, Typical		81%
Signal / Noise Ratio, Weighted		≥ 55dB
II, III Order Intermodulation Distortion		< -60 dB
Power Consumption		230V ~ 50Hz 4.5W / 230V ~ 50Hz 5W
Operating Temperature Range		-10°C - 50°C
Dimensions		128 x 120 x 54mm
Weight (packed)		0.5kg

pr. Software control

Specifications subject to change without notice.



Features

- 8 in 1 Out RF combiner
- 1U Rack mount
- Low insertion loss, high return loss and isolation
- High quality
- Durable, Reliable and Flexible

8 Ways RF Combiner CMB-8

Specifications

Model		CMB-8
Insertion Loss OUT-IN	5-240MHz	10.5 dB(Max)
	240-470MHz	11.0 dB(Max)
	470-750MHz	11.5 dB(Max)
	750-1000MHz	12.5 dB(Max)
Isolation Loss IN-IN	5-240MHz	28 dB(Min)
	240-470MHz	30 dB(Min)
	470-750MHz	28 dB(Min)
	750-1000MHz	25 dB(Min)
Return Loss IN/OUT	5-240MHz	16 dB(Min)
	240-470MHz	16 dB(Min)
	470-750MHz	16 dB(Min)
	750-1000MHz	16 dB(Min)
General Information	Interface / Impedance	F, 75Ω
Dimensions (LxDxH)		485 x 140 x 45 mm

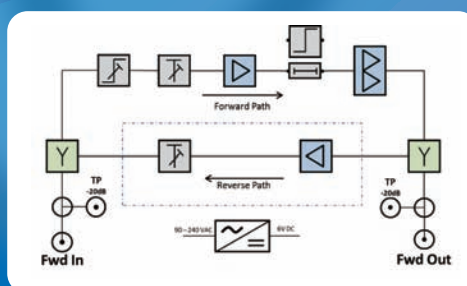


1 GHz CATV Amplifier AMP86234AITRM

Features

Made In Europe

- 1 GHz GaAs E-pHEMT push pull technology
- Gain and equalization controls
- Mains powered 90-240 VAC or 24-65 VAC
- IP54 Ultra compact and tough housing
- Easy installation
- Secure and reliable
- Efficient overvoltage and surge protection



Specifications

Model			AMP86234AITRM			
RF Parameters Forward (Down-Stream)	Technology	GaAs E-pHEMT MMIC	RF Parameters Return (Up-Stream)	Reverse Bandwidth Options	5 ~ 42 MHz	
	Forward Bandwidth Options	54 ~ 1000 MHz		Gain	17 dB	
	Gain	35 dB		Gain Response Flatness	+/-1 dB	
	Gain Response Flatness	+/-1 dB		Gain Control Options (Output)	0...20 dB variable	
	Gain Control Options (Input)	0...20 dB variable		RF Test Points	-20dB (Bi-directional)	
	Cable Slope Control Options (Input)	0...20 dB variable		Distortions	CTB,46dBmV flat,under 4ch	-70 dBc
	Cable Slope Control (Mid-Stage)	0/8dB jumper selectable			CSO,46dBmV flat,under 4ch	-60 dBc
	RF Test Points	-20dB (Bi-directional)			XMOD,46dBmV flat,under 4ch	-63 dBc
	Output Level (EN 50083-3, Cenelec 42 ch load with with 6 dB tilted output level output level)	CTB ≥ 60 dBc: 108 dBuV CSO ≥ 60 dBc: 110 dBuV XMOD ≥ 60 dBc: 107 dBuV		Output level (EN 50083-3, Cenelec 42ch load with flat output level)	CTB 60dBc	108 dBuV
	Output Level (EN 50083-3, Cenelec 42 ch load with flat output level)	CTB ≥ 60 dBc: 111 dBuV CSO ≥ 60 dBc: 113 dBuV XMOD ≥ 60 dBc: 110 dBuV			CSO 60dBc	110 dBuV
					XMOD 60dBc	107 dBuV
	Output Level (-60dB IMD3)	120 dBuV		Noise Power Ratio (NPR veya CINR)	64 @ 24dBmV input power	
	Noise Figure	< 6 dB		Input Dynamic Range @NPR=41dB	46dB (-3...43dBmV)	
	Return Loss (Input & Output)	-14 dB		Return Loss (Input & Output)	-16 dB	
		Noise Figure	< 6 dB			
General	Number of Outputs	1 bidirectional output 5 ~ 1000MHz and 1 test output				
	Input / Output Interface	F, 75Ω				
	RFI Isolation (5-1000 MHz)	-70 dB				
	Surge Protection	IEEE C62.41 Cat.A3 (6kV,200A)				
	Powering Options	90 ~ 240 VAC (Mains)				
	Power Consumption	4 Watt				
	Operating Temperature	-30...+60°C				
	Housing	IP54 class protection, die-cast housing				
	Dimension	105 x 125 x 50 mm				
	Weight	0.70 kg				

Specifications subject to change without notice.



Distribution Amplifier

DA86228NR/ DA86234NR

Features

- 220V main power
- Push-pull technology
- Built-in adjustable attenuator & equalizer
- Built-in test point
- Connector F type
- Metal-plastic housing for indoor mounting
- Output test point and screw terminal for equipotential bonding

Made In Europe

Specifications

Model	DA86228NR	DA86234NR
Frequency Range (forward path)	47 ~ 862 MHz	47 ~ 862 MHz
Gain	28 dB	34 dB
Frequency Response	± 0.5 dB	± 0.5 dB
Gain Adjustment	20dB	
Slope Adjustment, Typical	18dB	
Maximal Output Level IMD3 = 60 dB (DIN45004B)	117 dBμV	
Output Level CTB, CSO (EN50083-3)	101 dBμV	
Input and Output Return Loss*	> 14 dB	
Noise Figure	< 6 dB	
Input / Output Interface	F, 75ohm	
Test Point Attenuation	- 30 dB	
Power Consumption	230V / 50 Hz / 5W	
Operating Temperature Range	-20°C ~ 50°C	
Dimensions/ Weight (packed)	107 x 148 x 53 mm / 0.6 kg	

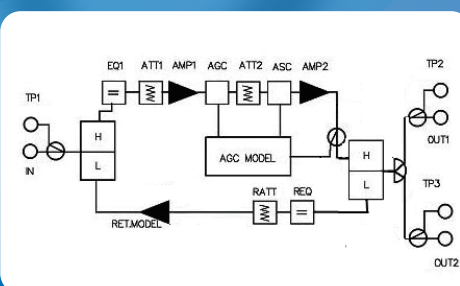
*When $f \geq 40\text{MHz}$, return Loss $\geq 14\text{dB}$ (40MHz) -1.5dB / octave, but not less than 10dB



Trunk Amplifier TA860

Features

- Economical choice for two-way CATV system
- Switch power supply
- GaAs power double amplifier technology
- Water-resistant and outdoor housing suit for all occasion



Specifications

Model		TA860
Frequency range	Forward path (option)	54 ~ 860 MHz
	Return path (option)	5 ~ 42 MHz
Gain	Forward path (option)	30 dB
	Return path (option)	22 dB
Noise Figure	Forward path	≤ 10 dB
	Return path	≤ 8 dB
Output Level	Forward path	102 dBμV
Pilot Frequency		471 MHz
AGC Range		± 4dB ± 0.3dB
Distortion CTB	Forward (input 59 PAL channels & 200 MHz digital signal)	≤ -65 dB
Distortion CSO	Forward (input 59 PAL channels & 200 MHz digital signal)	≤ -63 dB
Return Loss (Impedance 75Ω)	Forward path	≥ 15 dB
	Return path	≥ 15 dB
Flatness	Forward path	± 0.75 dB
	Return path	± 0.75 dB
Power Supply		60Vac version: 30V ~ 70V / 1 ~ 0.5A
		220Vac version: 150V ~ 265V / 0.3 ~ 0.2A
Operating Temperature		-20°C ~ 50°C
Weight		2.5 kg
Dimensions (L x W x H)		280 x 220 x 110 mm



Features

- All ports F-(f) connector, 75Ω
- Zinc die cast housing , nickel-plated
- Two pieces of screws attached
- Low insertion loss, high return loss and isolation
- Particularly design for easy and convenient installation
- Grounding terminal provided

Indoor RF Splitter / Indoor Tap

Specifications

Model		PAS SPL 2	PAS SPL 3	PAS SPL 4	PAS SPL 6	PAS SPL 8
Insertion Loss (dB) (IN-OUT)	5 - 40 MHz	≤ 3.5	≤ 5.6	≤ 6.7	≤ 9.0	≤ 10.7
	40 - 470 MHz	≤ 3.5	≤ 5.6	≤ 7.5	≤ 9.2	≤ 11.0
	470 - 862MHz	≤ 4.5	≤ 7.0	≤ 8	≤ 11	≤ 12
Isolation Loss (dB) (OUT-OUT)	5 - 40 MHz	≥ 22	≥ 25	≥ 25	≥ 25	≥ 25
	40 - 470 MHz	≥ 26	≥ 25	≥ 25	≥ 20	≥ 22
	470 - 1000 MHz	≥ 24	≥ 23	≥ 23	≥ 20	≥ 20
Return Loss (dB) (IN&OUT)	5 - 40 MHz	≥ 21	≥ 20	≥ 18	≥ 18	≥ 17
	40 - 470 MHz	≥ 20	≥ 20	≥ 20	≥ 16	≥ 20
	470 - 1000 MHz	≥ 16	≥ 16	≥ 16	≥ 15	≥ 15
Dimensions (L x H x D)		65 x 55 x 16 mm	88 x 55 x 16 mm	88 x 55 x 16 mm	118 x 60 x 18 mm	118 x 60 x 18mm

Model		2 Way Tap							4 Way Tap					
		TAP2-8	TAP2-10	TAP2-12	TAP2-14	TAP2-16	TAP2-18	TAP2-20	TAP4-12	TAP4-14	TAP4-16	TAP4-18	TAP4-20	TAP4-22
Insertion Loss(dB) IN-OUT	5 - 40 MHz	≤ 4.0	≤ 2.2	≤ 1.5	≤ 1.5	≤ 1.2	≤ 1.2	≤ 1.2	≤ 3.3	≤ 2.5	≤ 2.0	≤ 1.0	≤ 1.0	≤ 0.8
	40 - 470 MHz	≤ 4.5	≤ 2.5	≤ 2.0	≤ 2.0	≤ 1.5	≤ 1.5	≤ 1.5	≤ 3.5	≤ 3.0	≤ 2.0	≤ 1.0	≤ 1.0	≤ 0.8
	470 - 1000 MHz	≤ 6.0	≤ 3.5	≤ 2.5	≤ 2.5	≤ 2.0	≤ 2.0	≤ 2.0	≤ 4.7	≤ 3.5	≤ 2.8	≤ 1.8	≤ 1.5	≤ 1.2
Tap Loss(dB) IN-TAP	5 - 40 MHz	8 ± 1.8	10 ± 1.5	12 ± 1.5	14 ± 1.5	16 ± 1.5	18 ± 1.5	20 ± 1.5	12 ± 1.5	14 ± 1.5	16 ± 1.5	18 ± 1.5	20 ± 1.5	22 ± 1.5
	40 - 1000 MHz	8 ± 1.8	10 ± 1.5	12 ± 1.5	14 ± 1.5	16 ± 1.5	18 ± 1.5	20 ± 1.5	12 ± 1.5	14 ± 1.5	16 ± 1.5	18 ± 1.5	20 ± 1.5	22 ± 1.5
Reverse Isolation(dB) OUT-TAP	5 - 40 MHz	≥ 25	≥ 25	≥ 28	≥ 30	≥ 30	≥ 30	≥ 30	≥ 27	≥ 25	≥ 25	≥ 32	≥ 34	≥ 36
	40 - 470 MHz	≥ 22	≥ 22	≥ 25	≥ 25	≥ 25	≥ 28	≥ 28	≥ 24	≥ 25	≥ 25	≥ 28	≥ 28	≥ 28
	470 - 1000 MHz	≥ 16	≥ 18	≥ 20	≥ 22	≥ 24	≥ 25	≥ 25	≥ 20	≥ 23	≥ 24	≥ 25	≥ 25	≥ 25
Mutual Isolation(dB) TAP-TAP	5 - 40 MHz	≥ 27	≥ 27	≥ 27	≥ 30	≥ 35	≥ 35	≥ 36	≥ 27	≥ 27	≥ 27	≥ 27	≥ 27	≥ 27
	40 - 470 MHz	≥ 25	≥ 25	≥ 25	≥ 27	≥ 30	≥ 30	≥ 32	≥ 25	≥ 25	≥ 25	≥ 25	≥ 25	≥ 25
	470 - 1000 MHz	≥ 22	≥ 25	≥ 25	≥ 25	≥ 28	≥ 28	≥ 30	≥ 22	≥ 22	≥ 22	≥ 22	≥ 22	≥ 22
Return Loss(dB) IN 、 OUT 、 TAP	5 - 40 MHz	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18	≥ 18
	40 - 470 MHz	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20	≥ 20
	470 - 1000 MHz	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16
Dimensions (mm)	Lenght	78	78	78	78	57	57	57	78	78	78	78	77	---
	Height	53	53	53	53	49	49	49	62	62	62	62	49	---
	Depth	26	26	26	26	16	16	16	27	27	27	27	16	---

Specifications subject to change without notice.



Features

- Easy installation
- One piece body
- Crimp type and compression type available
- High return loss
- Tailor Made Models Available

Drop Connector / Adapter and Tools

Specifications

Drop Connector / Adapter and Tools					
FY010		RG6 F connector twist type	FY024		RG6 connector crimp type (For CS640BV, CS660BV)
FY069		F Female to PAL Female Material: Zinc	FY070		IEC Male to F Female adapter
FY109		90 degree F Female to PAL Male Material: Zinc	FY067		F Male to IEC F Female
IECM		IEC Male connector Material: Plastic	IECF		IEC Female connector Material: Plastic
FY007		F terminator	VA20		Frequency Range (MHz): 0-1000 Insertion Loss (dB): ≤ 2
HT-106F		RG59, RG6 crimp tool, hex size 0.322" & 0.359"	HT-106H		RG6, RG11 crimp tool hex size 0.322" & 0.476"
DCPC-SF		DC female to screw terminal Wire Size: 26-14AWG Stripping Length: 5-6mm	BNC-SM		BNC male to screw terminal Wire Size: 26-14AWG Stripping Length: 5-6mm
BNC-59		RG59 BNC connector crimp type	BNC-FF		Double BNC female Copper pin, Zinc-alloy body
BNC-TF		BNC three female (T shape) Copper pin, Zinc-alloy body	PSC-2		40CM, DC Female to DC Male x2, 5.5 x 2.1mm
			PSC-4		40CM, DC Female to DC Male x4, 5.5 x 2.1mm
FY004		Double F female connector Material: Zinc Alloy	FY078		F Quick male to F female Material: Brass
			FY028		RG11 F connector crimp type
			Plug I		Plug in F connector Material: Plastic
			FAM		Bandwidth: 1 GHz, Values: 1,2,3,6,8,12,14,15,16,17,20, Return Loss: ≥ 25 dB@1 GHz
			DCPC-SM		DC male to screw terminal Wire Size: 26-14AWG Stripping Length: 5-6mm
			BNC-SF		BNC female to screw terminal Wire Size: 26-14AWG Stripping Length: 5-6mm
			BNC-TM-2F		BNC male to double BNC female Copper pin, Zinc-alloy body

Specifications subject to change without notice.



Hardline Adapter / Connectors CT-Series/CTK Series

Features

Adapter

- Return loss > 25dB at 1 GHz
- Aluminium body with chromate conversion
- Electrical impedance 75 ohms
- Use 6262 aluminum alloy for excellent corrosion resistance
- Moisture-proof through durability design and implementation of UV Ozone-Resistant EPDM O-Rings
- Brass contact pins with bright acid tin plating providing excellent RF conductivity

Connectors

- Part numbers are permanently marked on the connector for easy identification
- Use 6262 aluminum alloy for excellent corrosion resistance
- Moisture-proof through durability design and implementation of UV Ozone-resistant EPDM O-rings
- Brass contact pin with bright acid tin plating providing excellent RF conductivity
- Cable center conductor cutting guide
- Visible entry of center conductor into siezing mechanism
- Same hexagon size used on both main body and back unit
- No torque wrench needed, metal to metal positive stop, ensures proper tightening of the connector

Specifications

Model	CT-625FG	CT-HH-M	CT-HH-FS	CT-TRM
Bandwidth	DC to 1 GHz	DC to 1 GHz	DC to 1 GHz	DC to 1 GHz
Nominal Impedance	75 Ω	75 Ω	75 Ω	75 Ω
Return Loss	> 25 dB @ 1GHz	> 25 dB @ 1GHz	> 25 dB @ 1GHz	> 30 dB @ 1GHz
Insertion Loss	< 0.2 dB @ 1GHz	$\leq$ 0.1 dB @ 1GHz	< 0.15 dB @ 1GHz	---
Operating Range	-40°C ~ 60°C	-40°C ~ 60°C	-40°C ~ 60°C	-40°C ~ 60°C
Interface	Meet SCTE IPS SP 501 / Meet SCTE IPS SP 400	Standard 5 / 8 - 24 UNEF	Standard 5 / 8 - 24 UNEF	Meet SCTE IPS SP 501

*CT-625F Return Loss > 16 dB @ 1GHz

Model	CT-D90	CT-D180
Bandwidth	DC to 1 GHz	DC to 1 GHz
Nominal Impedance	75 Ω	75 Ω
Return Loss	> 25 dB @ 1GHz	> 25 dB @ 1GHz
Insertion Loss	< 0.1 dB @ 1GHz	< 0.1 dB @ 1GHz
Operating Range	-40°C ~ 60°C	-40°C ~ 60°C
Interface	Meet SCTE IPS SP 501	Meet SCTE IPS SP 501

MODEL	Body Hex	Pin Type Model	Splice Model	F-Male Model	F-Female Model
CommScope P3 or Times Fiber T10	1"	CTK-412P-P3	CTK-412SP-P3	CTK-412FM-P3	CTK-412FF-P3
	1"	CTK-500P-P3	CTK-500SP-P3	CTK-500FM-P3	CTK-500FF-P3
CommScope QR	1"	CTK-540P-QR	CTK-540SP-QR	CTK-540FM-QR	CTK-540FF-QR
Times Fiber TX10	1"	CTK-565P-TX	CTK-565SP-TX	CTK-565FM-TX	CTK-565FF-TX
Bandwidth	DC - 1 GHz				
Nominal Impedance	75 Ω				
Return Loss	$\geq$ 30 dB @ 1GHz				
Insertion Loss	< 0.1 dB @ 1GHz				
Operating Range	-40°C ~ 60°C				
Interface	Meet SCTE IPS SP 501				

Specifications subject to change without notice.



Features

TV15F/TV25F

- Zinc diecast housing
- Screening factor ≥ 90 dB
- High RFI

WP101/WP102

- IEC Connector
- Metal rear cover

WP10L/WP02L

- IEC Connector
- Data Port

TV Wallplate F Connector/IEC Connector

Specifications

Model		TV15F (Terminal)	TV25F (Loop Through)	
F Connector	Insertion Loss IN-TV	5 - 65MHz	≤1.2 dB	≤4.2 dB
		65 - 550 MHz	≤1.3 dB	≤4.8 dB
		550 - 1000 MHz	≤1.5 dB	≤5.5 dB
	Insertion Loss IN-Radio	FM & DAB	12.5dB	≤16 dB
	Insertion Loss IN-OUT	5 - 550 MHz	-	≤3.6 dB
		550 - 1000 MHz	-	≤4.5 dB
	Isolation TV-Radio	5 - 65MHz	≥ 40 dB	≥ 40 dB
		65 - 550 MHz	≥ 40 dB	≥ 40 dB
		550 - 1000 MHz	≥ 40 dB	≥ 40 dB
	Isolation OUT-TV	5 - 65MHz	-	≥ 25 dB
		65 - 550 MHz	-	≥ 24 dB
		550 - 1000 MHz	-	≥ 23 dB
	Return Loss TV (MIN)	5 - 550 MHz	≥ 16 dB	≥ 18 dB
		550 - 1000 MHz	≥ 14 dB	≥ 18 dB
	Return Loss Radio (MIN)	FM & DAB	≥ 12 dB	≥ 18 dB
	RFI (MIN)	5 - 1000 MHz	≥ 90 dB	≥ 90 dB
Impedance		75Ω	75Ω	
Connector to TV Outlet		F Type	F Type	
Connector to FM Outlet		F Type	F Type	

Model		WP101	WP102	WP01L		WP02L
IEC Connector	Type	Terminal	Loop Through	Type	Terminal	Loop Through
	Frequency	87-862 MHz	87-862 MHz	Frequency	5-1000 MHz	5-1000 MHz
	Insertion Loss FM 87-108 MHz	1 dB	4 dB	Insertion Loss IN-TV 5-1000 MHz	1.5 dB	5.5 dB
	TV 470-862 MHz	1.5 dB	5 dB	IN-RADIO FM & DAB	10 dB	10 dB
	Through Loss FM 87-108 MHz	---	4 dB	Through Loss IN-OUT 5-550 MHz	---	3.6 dB
	TV 470-862 MHz	---	5 dB	550-1000 MHz	---	4.5 dB
	Isolation between FM and TV	≥ 15 dB	≥ 15 dB	Isolation between Radio and TV	≥ 40 dB	≥ 40 dB
	Safety Isolation	2 kV r.m.s	2 kV r.m.s	Data port	Plug with Ethernet/Telephone Keystone Jack	

Specifications subject to change without notice.



Features

- *High quality*
- *Durable, Reliable and Flexible*
- *Simply snap the modules in place*
- *Different modules for selection*

Wall plate X-SERIES

Specifications

Wallplate					
	WP-X_C1 X-SERIES Wallplate cover for 1X module Size: 8.5 x 8.8cm		WP-X_C2 X-SERIES Wallplate cover for 2X module Size: 8.5 x 8.8cm		WP-X_C3 X-SERIES Wallplate cover for 3X module Size: 8.5 x 8.8cm
Module					
	WP-X_AV RCA Audio and AV (CVBS) Video socket module		WP-X_A Audio L/R socket module		WP-X_COMP Video component module
	WP-X_RJ11 RJ11 Telephone jack module		WP-X_U2.0 USB2.0 socket module		WP-X_HDMI90 HDMI 90 degree socket
	WP-X_VGA VGA socket module		WP-X_MC Module cover		WP-X_TVIEC TV IEC socket module
	WP-X_RJ45 RJ45 jack module		WP-X_RJ45C6 RJ45 CAT6 jack module		WP-X_VGA-JUMPER VGA Module with jumper cable

Specifications subject to change without notice.



TV Signal Analyzer S7200

Features

- All-in-one Digital TV Spectrum Analyzer, 4 ~ 2150 MHz
- DVB-C/C2, DVB-T/H/T2, ATSC, ISDB-T/T_s, DTMB, DVB-S/S2, DAB/ DAB+ demodulation
- Decodes multiple video standards: MPEG-2/4, H.264/H.265, VC-1, AVS/AVS+
- Compatible with 4K, 1080p, 720p, and 576i
- Supports DVB-CI and BISS 1/E
- Transport Stream Analysis: RF, ASI, and IP input
- IPTV Analysis (by option)
- Optical power meter and optical receiver (by option)
- WiFi Analysis and Communication Module (by option)
- Double 1000M LAN, USB 3.0 ports
- Capacitive touchscreen

Specifications

Model		S7200			
Spectrum Analysis	Frequency Range	4MHz ~ 1220MHz (TV), 950 MHz ~ 2150 MHz (Satellite)	DAB/DAB+	Frequency Range	167.392MHz ~ 239.968MHz
	Frequency Span	0 MHz ~ 1216 MHz (TV), 0MHz ~ 1200MHz (Satellite)		Power Level Range	-30dBmV ~ +50dBmV / ±1.5 dB (C/N >20 dB)
	Frequency Step	1 kHz (TV & Satellite)		MER Measurement	3 ~ 31dB / ±2.0 dB
	Resolution Bandwidth	30kHz, 100kHz, 300kHz, 1MHz, 3MHz (-3dB)		CBER	1E-5 ~ 1E-1
	Level Measurement Range	-50dBmV ~ +60dBmV (TV), -30dBmV ~ +60dBmV (Satellite)		Frequency Range	42~1002MHz
	Accuracy of Measurements	<1.5 dB	DVB-T/H Measurement	Modulation Type	QPSK, 16 QAM, 64 QAM
	Measurement Detector	Positive Peak, Negative Peak, Sample, Average		Power Level Range	-35dBmV ~ +50dBmV/±1.5 dB (C/N >20 dB)
	Reference Level	-30dBmV ~ +60dBmV		Level Resolution	0.1 dB
Markers	2 Vertical and 2 Horizontal markers		MER Measurement	> 35 dB/±2.0 dB	
Analogue TV Measurement	Standards	B/G, I, D/K, L/L', M/N		CBER/VBER	√
	Color Standards	PAL, SECAM, NTSC		Constellation / Echo Pattern	√ / √
	Frequency Step	10 kHz		Frequency Range	42~1002MHz
	Hum Measurement	1% ~ 15%		Modulation Type	QPSK, 16 QAM, 64 QAM, 256QAM
	C/N	> 50dB		Power Level Range	-35dBmV ~ +50dBmV/±1.5 dB (C/N >20 dB)
	Level Measurement Range	-30dBmV ~ +60dBmV / < 1.5 dB	DVB-T2 Measurement	Level Resolution	0.1dB
	Level Resolution	0.1 dB		MER Measurement	>40 dB/±2.0 dB
	Frequency Range	42~1002MHz		CBER/LBER	√
DVB-C Measurement	Modulation Type	16/32/64/128/256 QAM ITU-T J.83 ANNEX A/B/C		Constellation / Echo Patter	√ / √
	Symbol Rate	1.8 MS/s ~ 7.0 MS/s		T2-MI	√
	Power Level Range	-30dBmV ~ +50dBmV / ±1.5 dB(C/N > 20 dB)	ATSC Measurement	Modulation Type	8 VSB
	Level Resolution	0.1 dB		Power Level Range	-35dBmV ~ 50dBmV/±1.5 dB (C/N > 20 dB)
	MER Measurement	~42dB/±2.0 dB		Level Resolution	0.1 dB
	BER	1E-3 ~ 1E-9		MER Measurement	>40 dB/±2.0 dB
	Constellation	√		BER	√
	Power Level Range	-30dBmV ~ +50dBmV / ±1.5 dB(C/N > 20 dB)		Constellation	√
DVB-C2 Measurement	Guard Interval	1/64, 1/128	ISDB-T/TB Measurement	Modulation Type	QPSK, 16 QAM, 64 QAM
	Bandwidth	6MHz and 8MHz		Modulation Bandwidth	6MHz
	Spectrum Inversion	Auto		Power Level Range	-35dBmV ~ 50dBmV/±2.0dB(C/N>20dB)
	PLP Code Rates	2/3, 3/4, 4/5, 5/6, 8/9, 9/10		Power Resolution	0.1dB
	PLP Constellation	16, 64,256, 1024, 4096QAM		MER Measurement	> 40dB/±2.0dB
	Data Slices	Type 1 & 2 supported, width up to 7.61MHz		CBER / VBER	1E-1~1E-5 / E-1~1E-7
	Cell ID	Detected from Transmitter Station		Constellation	√
	Network ID	Detected from Transmitter Station	DTMB Measurement	Carriers	C=1,3780
	C2 System ID	Detected from Transmitter Station		Power Level Range	25~ 110dBmV / ±2.0 dB(C/N > 20 dB)
				MER Measurement	30dB / ±2.0 dB
				BER	1E-1~1E-5

Continue to next page

Specifications subject to change without notice.

Model		S7200	
DVB-S/S2 Measurement	Modulation Type	QPSK, 8PSK, 16APSK, 32APSK	
	Symbol Rate	2 - 45 MS/s (DVB-S), 1 - 45 MS/s (QPSK DVB-S2), 1 - 45 MS/s (8PSK DVB-S2), 1 - 45 MS/s (16APSK DVB-S2), 1 - 38 MS/s (32APSK DVB-S2)	
	Power Level Range	-20 - 50dBmV/±1.5 dB (C/N>20dB)	
	Level Resolution	0.1 dB	
	MER Measurement	> 25 dB/±2.0 dB	
	BER	DVB-S (CBER/VBER), DVB-S2 (CBER/LBER)	
Video/Audio Decoder	Constellation	√	
	Video	MPEG2/4, H.264, H.265, VC-1, AVS/AVS+	
	Video Resolution	4K, 1080p, 720p and 576i	
	Audio	MPEG1/2, AAC, AAC+, DRA	
	CAM Module	EN50221 (DVB-CI) PCMCIA interface	
	BISS Decryption	Support Mode 1 and Mode E	
TS Analyzer	TS-ASI Input and Output	√	
	TS Record	√	
	Standard Interface	En 50083-9(DVB SPI, ASI)	
	DVB-ASI Interface	75 Ω BNC	
	DVB-ASI Clock	270 MHz	
	DVB-ASI Max Data Rate	0 to 72 Mbps	
	DVB-ASI Output Signal Level	1.0 Vp-p nominal	
	DVB-ASI Return Loss	> 15dB	
	DVB-ASI Input Level	800 mV +/- 10%	
	Real time Decoder	Displays real-time TV feed (through CA system), including program names & numbers, provider information, and video & audio PIDs	
	TR101290 Priority 1, 2 & 3 Monitoring	TR 101 290 Priority 1 / 2 / 3 real-time monitoring, not including buffer test related parameters	
	Base Information	Counts PID % according to stream type. Video, audio, PSI/SI, and null packages.	
	PID List	Displays all PIDs in the current stream	
	Program Information	Displays detailed information on unencrypted programs, including video resolution and audio compression rate	
	PCR Monitoring	Calculates PCR interval and PCR accuracy	
	PSI/SI List	Displays PSI/SI information in tree format. Includes PAT, PMT, and CAT. (NIT, SDT, RST, TDT, EIT by option only)	
	Program Info	EPG	
	PID Capture	Captures a specific PID by type: video, audio, PSI (PAT, PMT, NIT, TDT, RST, SDT, EIT, etc). Displays in HEX format	
	Transport Record and Replay	SSD for transport stream recording	
IPTV Analysis	Support Protocol	UDP, RTP	
	Support Transport Type	MPEG-2 TS over IP	
	Broadcast Type	Unicast, Multicast	
	Unicast max stream rate	<20Mbps	
	Multicast max stream rate	<50Mbps	
	Frequency	2.4G, 5G	
WiFi Analysis	Support Standard	802.11 a/b/g/n	
	Security Mode	WPA/WPA2/WPA-PSK/WPA2-PSK	
	Test Parameters	SSID, Level, Channel	
	Measurement Wavelength	1310nm, 1490nm, 1550nm	
	Measurement Range	-50dBm ~ 27dBm ±0.17dB (±3%)	
	Linearity	0.07dB/10dB	
Optical Power Measurement	Resolution	0.01dBm	
	Interface	(FC/SC/ST) / APC General Optical Adaptor	
	Dynamic Range of Conversion	<+10dBm	
	Cable and DTTB Band	65MHz ~ 1000MHz	
	Satellite IF-Band	950MHz ~ 2150MHz	
	RF Input	75Ω F (Cable TV); 50Ω SMA (DVB-T/T2/ATSC/ISDB-T/DTMB)	
Optical Receiver	Video/Audio input/output	3.5mm Multi-pole jack	
	USB	1 USB 3.0	
	LAN	2 100/1000 Mbps: RJ45	
	CAM	1 PCMCIA	
	TS-ASI Input / Output	2 75Ω BNC	
	DC Supply Input	12V / 5A	
Interface	GPS Input	USB Dongle	
	Display	7 inches TFT LCD 800 × 480 pixels, Capacitive Touch Screen	
	External AC Power Adapter	Input: AC 100 - 240 V/50-60 Hz, Output: DC 12 V/5 A	
	Battery	Li-ion, 7.4 V/13 Ah	
	Charge Time	around 5 Hours	
	Battery Operating Time	>5 Hours	
General	Remote Feeding	5/13/15/18/24V, Max. 5 W	
	22 kHz Control Signals	DiSEqC 1.2 and SaTCR	
	Dimension (WxHxL) / Weight	253 mm x 194 mm x 84mm / 2.4 kg	
	Operating Temperature	-10°C ~ +50°C	

Model		S7200	
TV Monitoring		Spectrum Analysis	DVB-S/S2 Signal Analysis
DVB-C2 Signal Analysis		DAB/DAB+ Signal Analysis	ATSC Signal Analysis
DVB-T/T2 Signal Analysis		ISDB-T/TB Signal Analysis	WiFi Analysis
Transport Stream Analysis & Monitoring		DTMB Singal Analysis	
Program Decoding & Monitoring		TR 101 290 three-level monitoring	PCR Interval & Accuracy Monitoring
IPTV Analysis		Optical Power Measurement	

Specifications subject to change without notice.



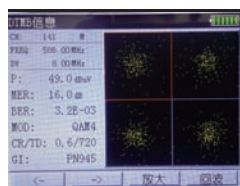
Features

- Support DTMB digital TV signal measurement (GB20600-2006)
- Spectrum analyzer and analog TV measurement feature
- Echo analysis feature (EA1500 only)
- Long operating hours
- Built-in re-chargable Li-ion battery
- Support channel scan (EA1500 only)
- Tilt, C/N ratio measurement
- Support FM signal and FM audio demodulation

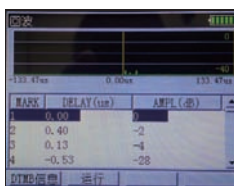
DTMB TV Analyzer EA800 / EA1500

Specifications

Model		EA800 / EA1500	
DTMB Feature	Frequency Range	58 ~ 858 MHz	Analog TV Feature
	Frequency Resolution	10 KHz	
	Range Power	25 ~ 120 dBm	
	Level Resolution	0.1dB	
	Level Accuracy	± 1.5 dB	
	MER Range	13 ~ 34 dB	
	BER	1E-2 - 1E-8	
	Echo Test	Yes (EA1500 only)	
Other	Other Features	Single, multi-carrier compatible, constellation diagram, MER, BER, modulation scheme, FEC code rate, frame Header mode, symbol interleaver	Spectrum Analyzer Feature
	Dimension	279 x 118 x 57 mm	
	Weight	740 g	
	Display Interface	Chinese	
	Battery	8.4V/2.6AH Lithium	
	Battery Operating Hour	5hr	
	Frequency Range	5 ~ 1000 MHz	
	Frequency Resolution	10 KHz	
DTMB Feature	Level Range	25dBμV ~ 120dBμV	Analog TV Feature
	Level Accuracy	± 1.5dB	
	Other Test Functions	C/N, V/A, slope, limit, channel management, FM audio demodulation, channel scanning (EA1500 only)	
	Frequency Range	5 - 1000 MHz	
	Level Range	10dBμV - 120dBμV	
	Level Resolution	0.1dB	
	Level Accuracy	± 1.5dB	
	Measurement BW	995MHz	
Other	SPAN Range	8 MHz / 16MHz / 32MHz / 50 MHz / 100MHz / 200MHz / 500MHz / Full	Spectrum Analyzer Feature
	Frequency Range	5 ~ 1000 MHz	
	Level Range	10dBμV - 120dBμV	
	Level Resolution	0.1dB	
	Level Accuracy	± 1.5dB	
	Measurement BW	995MHz	
	SPAN Range	8 MHz / 16MHz / 32MHz / 50 MHz / 100MHz / 200MHz / 500MHz / Full	
	Frequency Range	5 ~ 1000 MHz	



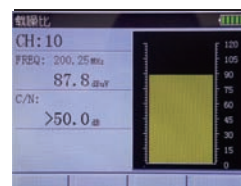
Digital TV information



Echoes test
(EA1500 only)



Spectrum Analyzer mode



C/N



Features

HT8385

- Auto scan function
- Spectrum testing function (HT 8385)
- Trunk voltage testing
- Tilt measurement

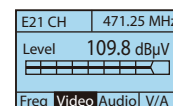
HT828A

- Trunk voltage testing

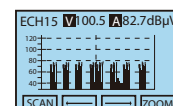
Signal Level Meter HT8385/ HT828A

Specifications

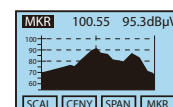
Model		HT-8385	HT-828A
General	Frequency Range	5 ~ 870 MHz	46 ~ 870 MHz
	Resolution Bandwidth	280 KHz ± 50KHz	280 KHz ± 50KHz
	Channels	PAL or NTSC	PAL or NTSC
	Level Range	30 dBμV ~ 120dBμV	30 dBμV ~ 120dBμV
	Accuracy	± 1.5dBμV (Under Room Temperature) ± 2.5dBμV (-10°C ~ 40°C)	± 1.5dBμV (Under Room Temperature) ± 2.5dBμV (-10°C ~ 40°C)
	Input Impedance	75Ω (BNC or F Connector)	75Ω (BNC or F Connector)
	Wave Delection	Peak value	Peak value
Auto Scan Testing	Max Channel Scan	125 Channels	---
	Scan Range	All Channels within 46 - 870MHz	---
	Scan Speed	30 Channels / Min	---
	Memory Groups	24 Group (00 - 23)	---
		Each group store max 100 channels	---
Voltage	Voltage Range	0 ~ 100VAC	0 ~ 100VAC
	Accuracy	± 1.5 V	± 1.5 V
	Resolution	0.1V	0.1V
Other	Dimension	214 x 94 x 47mm	214 x 94 x 47mm
	Weight	1.4 kg (with charger)	1.3 kg (with charger)
	Working Temperature	-15°C ~ 40°C	-10°C ~ 40°C
	Display LCD	128 x 64 matrix super big LCD with back light	16 x 2 LCD with back light
Power	DC Supply	DC 7.2V / 1.6 Ah rechargeable battery	DC 7.2V / 1.6 Ah rechargeable battery
	AC Supply	AC 220V / 50 Hz ± 10%	AC 220V / 50 Hz ± 10%
	Battery Working Hours	Longer than 4 hours at continuous working mode	Longer than 4.5 hours at continuous working mode
	Recharging Hours	12 ~ 14 Hours	12 ~ 14 Hours



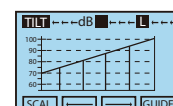
Single Channel



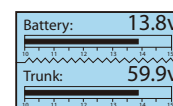
Auto Scan



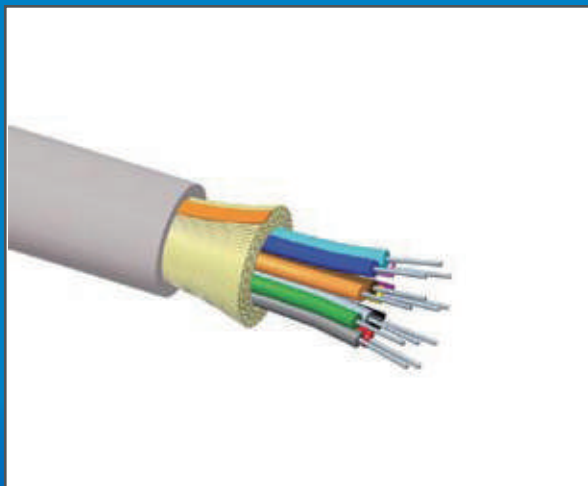
Spectrum



TILT



Voltage



Features

Outdoor Central Tube

Armor Fiber Optics Cable

- Available in Multimode / Singlemode
- Cables are water blocked
- Outer jacket is moisture-resistant, fungus and rodent resistant and UV resistant for outdoor use
- With a plenum rating, this cable can be used in all environmental plenum, riser and general environment

Indoor Distribution

Buffered Fiber Cable

- Available in Multimode / Singlemode
- Single strand
- Provide the strength and flexibility required for today's fiber interconnect application
- Plenum, Riser and LSZH, available in all diameter

Fiber Cable Outdoor / Indoor Cable

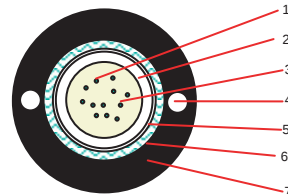
Specifications

Outdoor Central Tube Armor Fiber Optics Cable

Model	GYXTW2	GYXTW4	GYXTW6	GYXTW8	GYXTW12
Number of Fiber	2	4	6	8	12
Strength Member	Material Steel wire				
Loose Tube	Material Polybutylene Terephthalate (PBT)				
Wrap Tape	Material Water swellable tape				
Armoring	Material Corrugated steel tape				
	Thickness (mm) 0.15 steel tape coated 0.05				
Jacket	Material PE water resistant grade				
	Thickness (mm) Normal 1 ~ 2 mm				
Jacket Material	MDPE jacket				
Cable Diameter	8.3mm $\pm$ 0.2 mm				
Cable Weight	100 kg/km				
Minimum Bending Radius	Long term: 10 times of OD, Short term: 5 times of OD				
Maximum Tension (N)	Long term: 900, Short term: 2000				
Maximum Crush Resistance (N/per 100cm)	Long term: 700, Short term: 1500				
Temperature	Temperature Storage and Installation -20°C ~ +55°C				

CENTRAL TUBE CABLE

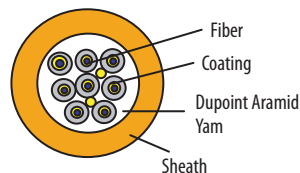
cable overall diameter: 8.3 mm $\pm$ 5%



- Fiber
 - Loose tube
 - Jelly
 - Strength member
 - Wrap tape
 - Corrugated steel tape
 - PE jacket
- Non-Corrosive compound - UV and Water resistant

Indoor Distribution Buffered Fiber Cable

Jacket Material	Buffered Fiber Core 900um, Aramid Strength Member, PVC / LSZH Jacket Polyvinyl Chloride Or The Low Smoke Zero Halogen jacket. The jacket shall be tested to and comply with ASTM 162 – Flame Spread Index, ASTM E662 – Smoke Density Generation and Bombardier SMP-800C – Toxic Gas Generation				
Model	EG004SB	EG006SB	EG008SB	EG0012SB	EG0024SB
Number of Fibres	4	6	8	12	24
Cable Diameter	$\pm$ 5 mm	$\pm$ 5.5 mm	$\pm$ 6 mm	$\pm$ 6.5 mm	$\pm$ 8.5 mm
Maximum Cable Weight	Long Term 50 kg / km	50 kg / km	50 kg / km	60 kg / km	65 kg / km
Minimum Bending Radius	Short Term 100 mm	100 mm	100 mm	130 mm	230 mm
	50 mm	50 mm	50 mm	75 mm	115 mm
Operation Temperature Range	-20°C ~ +55°C				
Installation Storage Temperature	-40°C ~ +70°C				



Specifications subject to change without notice.



Features

- 870 MHz bandwidth
- High-performance DFB laser to increase the signal quality
- Low noise, low distortion and pre-AMP to meet low RF input signal
- ATC (Automatic Temperature Control) and APC (Automatic Power Control) maintain precise optical power level
- Front panel RF test point (-20dB)
- Front panel LCD display
- Advanced high efficiency switching power supply

Optical Transmitter SHQ-OFT

Specifications

Model	SHQ-OFT
Type of Laser	DFB
Wavelength	1310 ± 20 nm
Output Optical Power	10, 13, 16 mW (Optional)
Fiber Connector	SC / APC
Frequency Range	47 ~ 870 MHz
Input RF Signal Level	80 ± 3 dBμV
CNR (NOTE)	≥ 52dB
CTB (NOTE)	-67dBc
CSO (NOTE)	-62dBc
Flatness	± 0.75dB
RF Input / Impedance	Γ, 75 Ω
RF Input Return Loss	≥ -15 dB
APC Control Precision	≤ ± 0.1 dB
ATC Control Precision	25 ± 1°C
Max TEC Operating Current	DC+5V: 0.85 A
MTBF	≥ 40000 h
Laser Operating Temperature Range	5°C - 40°C
Overall Storage Temperature Range	-25°C ~ 55°C
Overall Relative Humidity	40 ~ 70%
Overall Power Supply Input (with Filter)	AC220 V (176 - 264V)
Communication Interface	RS232 / 485
Power Dissipation	50 W
Dimensions	480 x 350 x 44 mm
Weight	3 kg

*59 PAL Channel Loading, Optical Power of Rx-1dBm

Specifications subject to change without notice.



Features

- **LCD display:** displays the parameters, such as input optical power, attenuation, equilibrium (N860T-AE only)
- **Optical AGC:** Excellent AGC characteristic, when the input optical power range is -8 ~ +2dBm, the output level, CTB and CSO basically unchanged (N860T-AE only)
- **GaAs amplifier device:** high gain and low distortion.
- **High power output**
- **Attenuation and EQ are adjusted by control button** (N860T-AE only)

Optical Receiver N860T

Specifications

Model		N860T-AE	N860T-B
Forward Path	Receive Optical Power	-8 ~ +2 dBm	
	Optical Wavelength	1100 ~ 1600 nm	
	Optical Connector Type	FC/APC, SC/APC (Optional)	
	Optical Fiber Type	Single Mode	
	Frequency Range	47 ~ 862 MHz	
	Flatness in Band	±0.75 dB	
	Rated Output Level	≥ 108dBμV (CTB>60dB, CSO>60db)	
	Output Return Loss	≥ 16dB	
	Output Connector	F type	
	Output Impedance	75Ω	
Return Path	Frequency Range	---	5 ~ 42 MHz
	Optical output level	---	1mW
	Optical Wavelength	---	1310 nm
	Optical Connector Type	---	SC/APC, FC/APC,
General	Power Voltage	AC 220V/50Hz / AC37~60V/50Hz (Optional)	
	Operation Temperature	-20°C ~ +55°C	
	Relative Humidity	Max 95% non-condensing	
	Consumption	≤ 12W	
	Dimension	215mm (L) x 165mm (W) x 80mm (H)	



SAT-IF Optical Transmitter / Receiver HDS-26S / HRS-26S/P

Features

- Different models and housing available for different satellite L-band transmission applications
- Able to transmit all satellite L-band analogue and digital signals in 950 - 2400MHz
- Different optical wavelength options: 1310nm, 1550nm and CWDM
- Achieved high reliability and long lifetime by perfect laser APC and ATC control circuit
- Optical transmitter can supply 13VDC or 18 VDC to LNB
- Good in against interference from EM, RF and thunderstorm
- Cost effective

Specifications

HDS-26S		MIN	TYP.	MAX
Optical Feature	Wavelength Stability	-1 Pm/ °C	---	0 Pm/
	Equivalent Noise Temperature	---	---	-155 dB/Hz
	Side Mode Suppression Ratio	35 dB	---	---
	Optical Isolation	30 dB	---	---
	Extinction Ratio	8.2 dB	---	---
	SBS	16@1310 nm	---	---
	Return Loss	50 dB	≥ 0dB	---
	Optical Connector	SC/APC & LC/APC		
RF Feature	Operating Bandwidth	950 MHz	---	2600 MHz
	Input Range	-40 dBm	---	-14 dBm
	Flatness	2 dB	---	2 dB
	Return Loss	12dB	---	---
	Channel Loading	36 CH		
	CNR	28 dB	---	---
	CTB	---	---	-36 dB
	CSO	---	---	-36 dB
	Input Impedance	---	75Ω	---
	RF Connector	---	F-Female	---
	To LNB Voltage	---	13/18 VAC	---
	To LNB Current	---	---	300 mA
General	Power Supply	DC 12V		
	Power Consumption	---	---	5 W
	Operating Temperature	- 5°C	---	65°C
	Storage Temperature	- 40°C	---	85°C
	Operating Relative Humidity	5%	---	95%

HRS-26S/P		MIN	TYP.	MAX
Optical Feature	Operating Wavelength	1260 nm	---	1260 nm
	Reasonability (R13)	0.9 A/W	---	---
	Receiving Optical Power	Typ	---	≥-13
		Overload	+3 dBm	---
	Optical Receiver PD	PIN		
	Return Loss	50 dB	---	---
	Optical Connector	SC / APC		
	Working Bandwidth	950 MHz	---	2600 MHz
RF Feature	Output Level	10 dBmV	---	30 dBmV
	Flatness	950-2400MHz	-1.0 dB	+1.0 dB
	Output Return Loss	950-2400MHz	12 dB	---
	Channel Loading	PQSK or FM	---	36 CH
	IM3	- 65 dB	---	---
	HUM	- 60 dB	---	---
	IP1	18 dBm	---	---
	Output Impedance	Option 50Ω	75Ω	---
	RF Connector	75Ω	F-Female	
	Power Consumption	---	---	5 W
	Operating Temperature	- 5°C	---	- 65°C
	Storage Temperature	- 40 °C	---	+85°C
General	Operating Relative Humidity	5%	---	95%
	Size	HRS-26S/P-113 19" x 14.5" 1.75"		
		HRS-26S/P-213 59 x 98 x 23 mm		
		HRS-26S/P-313 117 x 72 x 29 mm		
		HRS-26S/P-913 150 x 135 x 98 mm		



Fiber Patch Panel / Enclosures

Features

Wall Mount Enclosure

- Door Lockable
- LC, SC & Adapter available
- Supplied with accessories

Rack Mount Patch Panel

- Steel Construction
- Sliding design
- LC, ST, FC, SF & Adapter available

Wall Mount Enclosure	FM12-XXXX	FM12-XXXXB	FM48-XXXX
Number of Ports	12	12	48
Dimension(mm)	300 x 300 x 80	230 x 230 x 80	370 x 350 x 114
Number of Door	2	1	2

*Remark: consult for different connector and accessories configuration

Rack Mount Patch Panel	
Size	19", 1U
Number of Ports	12, 24, 48 ports available (depends on connector)
Color	Black



Features

- Low insertion loss and high uniform
- Low polarization relevant
- Redundant reliability

1XN Optical Splitter

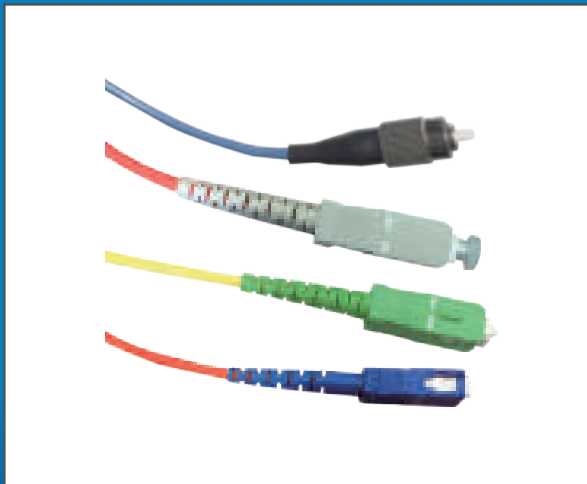
Specifications

Model		OS1X2PLCX	OS1X4PLCX	OS1X8PLCX	OS1X16PLCX	OS1X32PLCX	OS1X64PLCX	OS1X128PLCX
Type		1 x 2	1 x 4	1 x 8	1 x 16	1 x 32	1 x 64	1 x 128
Operating Wavelength		1260 ~ 1650 nm						
Insertion loss	Typical	4.0 dB	7.2 dB	10.3 dB	13.8 dB	16.8 dB	20.2 dB	23.5 dB
	Maximum	4.2 dB	7.4 dB	10.5 dB	14.0 dB	17.0 dB	20.4 dB	23.7 dB
Uniformity	Maximum	0.8 dB	0.8 dB	0.8 dB	1.0 dB	1.2 dB	2.0 dB	2.0 dB
Polarization Dependent Loss	Maximum	0.1 dB	0.1 dB	0.1 dB	0.2 dB	0.2 dB	0.2 dB	0.2 dB
Return loss	Maximum	≥50 dB (≥55 dB with connector)						
Directivity	Maximum	≥55 dB						
Operating temperature		-20℃ ~75℃						
Storage temperature		-40℃ ~ 85℃						
Package/Dimension/Type		Different outlook available (Please consultate for details) ABS box, LGX modular box, 1RU rack size						

OS1XNPLCX

R = Rack Mount Type
B = Small Box Type
L = LGX Type

2 = 1x2
4 = 1x4
8 = 1x8
16 = 1x16
32 = 1x32
64 = 1x64
128 = 1x128



Features

- Low insertion loss
- High return loss
- Good duplication, and interchange ability
- Applications:
Long-distance trunk network,
Metro- area network, access network
DWDM system, Optical fiber CATV
Optical fiber data network

Fiber Patch cord & Pigtail

Model Fiber Patch cord & Pigtail										
Parameter		FC, SC, LC				FC, SC, LC			FC, SC, LC	
		SM			MM	SM		MM	SM	
		PC	UPC	APC	PC	PC	UPC	PC	PC	APC
IL(typical)	dB	≤ 0.3	≤ 0.2	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.2	≤ 0.3	≤ 0.3	≤ 0.3
RL	dB	≥ 45	≥ 50	≥ 60	≥ 30	≥ 45	≥ 50	≥ 30	≥ 55	≥ 75
Exchange Ability	dB	≤ 0.2				≤ 0.2			≤ 0.2	
Vibration	dB	≤ 0.2				≤ 0.2			≤ 0.2	
Operating Temperature	°C	-40 ~75				-40 ~75			-40 ~75	
Storage Temperature	°C	-45 ~85				-45 ~85			-45 ~85	
Diameter	mm	Φ3.0, Φ2.0, Φ0.9				Φ3.0, Φ2.0, Φ0.9			Φ3.0, Φ2.0, Φ0.9	



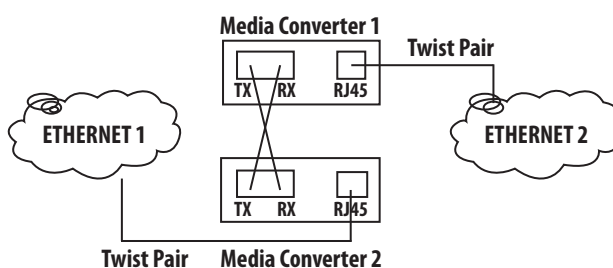
Ethernet Optical Extender EETF

Features

- In conformity to IEEE802.3 10base-T, IEEE802.3u 100 base-TX/FX, IEEE802.3ab 1000 base-T, IEEE802.3Z 1000base-SX/LX, IEEE802.1a, IEEE802.1PQ0S, IEEE802.1d Spanning Tree
- MDI/MDI-X Auto Negotiation
- Supports 2U 19" System Chassis , holds up to 14pcs standalone type media converter or 16pcs card based media converter
- Supports 10/100Mbps and 10/100/1000M full/half duplex and auto-negotiations , easy upgrades
- Supports VLAN transmission

Specifications

Model		EETF	
Rate	Self-adaptive 10/100M or 10/100/1000M	Power	2.5W
Protocol Supported	IEEE802.3/IEEE802.3U etc.	Power Supply	DC5V/1A
Fiber Type	Single / dual fiber	Working Temperature	0°C ~ 50°C
Optic Mode	Single / multimode	Working Humidity	5% ~ 95%
Transmission Mode	Half / full duplex	Storage Temperature	-40°C ~ 70°C
Ethernet Interface	RJ-45	Storage Humidity	5% ~ 95%(no-condensing)
Optic Interface	SC/FC/ST	Weight	0.38KG
Optic Wavelength	850nm, 1310nm, 1550nm (Options)	Dimensions	94 x 70.6 x 26.5mm for device
BER	< 1/1000000000		
MTBF	3 years		



Part Number	Optic Fiber	Wavelength	Power	Rx Sensitivity	Transmission Distance	Loss Allowed	Speed
EETMM-2	MM	850/1310 nm	-20~-12 dBm	-30 dBm	2 KM	10 dBm	10/100 MBps
EETFSM-25	SM	1310 nm	-15~-7 dBm	-34 dBm	25 KM	19 dBm	10/100 MBps
EETFGM	MM	850 nm	-9.5~4 dBm	-17 dBm	0.55 KM	8 dBm	10/100/1000 MBps
EETFGS-20	SM	1310 nm	-6~-1 dBm	-21 dBm	20 KM	15 dBm	10/100/1000MBps

Specifications subject to change without notice.



Features

- Transmits HDMI video and audio signals up to 20km over one fiber optic cable
- Support video resolution up to 1920 x 1080P@60Hz;
- Compliance with HDMI 1.3 and HDCP 1.2
- Auto-match source and display device
- Built-in automatic adjustment system, make the image smooth, clear and stable
- Built-in ESD protection system
- Simple to install, plug and play

HDMI Optical Extender EH0106T, EH0106R

Specifications

Model		EH0106T / EH0106R
Video	Standards	HDMI 1.3, HDCP 1.2
	Maximum Pixel Clock	165MHz
	Maximum Data Rate	6.75Gbps
	Resolution Range	1920 x 1080@60Hz,3Dsignal
	Connector	Female HDMI Type A
	Impedance	100Ω
Optical Fiber	Interface	SFP model-LC connector
	Fiber type	Single-mode Multi-model(ontional)
	Wavelength	Single-mode 1310nm
		Multi-model Fiber:850nm(optional)
	Interface Bandwidth	10.2Gbps
	Transmission Distance	Single-mode fiber: standard 2km
		maximum 10km
OM3 Multi-mode fiber:<300m		
Other	Power Supply	The Power Adapter: DC 5V/2A
	Power Dissipation	MAX 5W
	Temperature	Operating: -5℃ ~ +70℃
	Humidity	Operating: 5% ~ 90%
	Dimension	93.5 x 71 x 25mm
	The Warranty	1 Year Free Warranty

Specifications subject to change without notice.



Features



TOP TECHNOLOGY FROM U.S.A

- Anti-theft
- 4.1 Inch color screen
- ID electrodes
- Quick booting up

Fiber Splicing Machine A3

Specifications

Model	A3
Fiber Alignment	High Precision PASalignment
Fiber Type	SM(ITU-T G.652),MM(ITU-T G.651), DS(ITU-T G.653), ZN/NZDS(ITU-T G.655), BI(ITU-T G.657)
Splice Mode	Single fiber
Fiber Diameter	Cladding diameter 80~150 μm, coating 100~1000μm
Cleave Length	250 μm cladding diameter 8~16, over 250 μm cladding diameter 16mm
Splicing Programs	Max.100
Splicing Time	5 sec.[SM Fast] program, 15 sec.[SM G652] program
Heating Programs	Max.30
Heating Time	Typical 15 sec. (Adjustable)
Splice Protector	10~60mm
Splice Image Capture	Max.300
Splice Data Storage	Max.20000
Splice Loss	SM:0.02dB, MM:0.01dB, DS:0.04dB, NZ/NZDS:0.04dB, BI:0.02dB
Return Loss	>>60dB
Loss Estimation	Provided
Operation Condition	Altitude 0~5000m, Humidity 0~95%, Temperature -20~+50°C, Wind velocity up to 15m/s
Storage Condition	Humidity 0~95%, Temperature -20~+50°C (Battery -20~+40°C)
Tension	2N
Fiber View	Two 300x camera observation, 4.1 inch high-light color touch screen
Fiber Magnification	300x for X or Y single axis view; 150x for both X & Y dual axis view
Port	High speed USB
Electrodes Life	5000 arc discharges
Power Supply	AC100-240, 50/60Hz
Battery Parameters	4000mAh high capacity battery, more than 240 times splicing and heating , Full charge within 3 hours
Size (DxWxH)	136x135x136mm
Weight	1.5kg (1.8kg with Battery)

Specifications subject to change without notice.



Features



TOP TECHNOLOGY FROM U.S.A

- Anti-theft
- 6 Motors Core Alignment
- 4.1 Inch color screen
- ID electrode
- 1 Sec booting

Fiber Splicing Machine C10

Specifications

Model	C10
Fiber Alignment	6 motors core alignment
Fiber Type	SM(ITU-T G.652),MM(ITU-T G.651), DS(ITU-T G.653), ZN/NZDS(ITU-T G.655), BI(ITU-T G.657)
Splice Mode	Single fiber
Fiber Diameter	Cladding diameter 80~150 μm, coating 100~1000μm
Cleave Length	250 μm cladding diameter 8~16, over 250 μm cladding diameter 16mm
Splicing Programs	Max.100
Splicing Time	6 sec.[SM Fast] program, 10 sec.[SM G652] program
Heating Programs	Max.30
Heating Time	Typical 12 sec. (Adjustable)
Splice Protector	10~60mm
Splice Image Capture	Max.300
Splice Data Storage	Max.20000
Splice Loss	SM:0.02dB, MM:0.01dB, DS:0.04dB, NZ/NZDS:0.04dB, BI:0.02dB
Return Loss	>>60dB
Loss Estimation	Provided
Operation Condition	Altitude 0~5000m, Humidity 0~95%, Temperature -20~+50°C, Wind velocity up to 15m/s
Storage Condition	Humidity 0~95%, Temperature -20~+50°C (Battery -20~+40°C)
Tension	1.96~2.25N
Fiber View	Two 300x camera observation, 4.1 inch high-light color screen
Fiber Magnification	300x for X or Y single axis view; n 200x for both X & Y dual axis view
Port	High speed USB
Electrodes Life	5000 arc discharges
Power Supply	AC100-240, 50/60Hz
Battery Parameters	8400mAh high capacity battery, more than 320 times splicing and heating
Size (DxWxH)	156x135x149mm
Weight	2.0kg (2.5kg with Battery)

Specifications subject to change without notice.



Features

- Comply with ANSI/EIA, RS-310-D; IEC297-2; DIN41491: PART 1; DIN41491: PART 7; GB/T3047.2-92 standard and ETSI standard
- Simple structure, easy operation, precision size
- Tempered glass front door
- Castor wheels and support feet option are available
- Quick installed side panel and rear door for easier maintenance
- The bottom cable entry can be closed, the size can be adjusted according to the requirement
- Optional accessories and reliable quality

Rack Cabinet Standard Series

Specifications

General	
Standards	Comply with ANSI/EIA, RS-310-D, IEC297-2, DIN41491: LPART1, DIN41494: PART7, GB/T3047.2-92 & ETSI standard
Materials	SPCC cold rolling steel plate
	Mounting profile: 1.5mm
	Front door: Glass
	Others: 0.8mm
Surface Finish	The degreasing, pickling, phosphoric, powder coated
Loading Capacity	Static loading capacity: 300kg
	Wall mount Static loading capacity: 60kg

Wall Mount					Free Standing				
Model	Capacity (U)	Width (mm)	Depth (mm)	Height (mm)	Model	Capacity (U)	Width (mm)	Depth (mm)	Height* (mm)
0464	4	600	450	278	2166	21	600	600	1140
0466	4	600	600	278	2168	21	600	800	1140
0664	6	600	450	367	2766	27	600	600	1407
0666	6	600	600	367	2768	27	600	800	1407
0964	9	600	450	500	3166	31	600	600	1585
0966	9	600	600	500	3168	31	600	800	1585
1264	12	600	450	650	3666	36	600	600	1807
1266	12	600	600	650	3668	36	600	800	1807
1564	15	600	450	775	4166	41	600	600	2029
1566	15	600	600	775	4168	41	600	800	2029
1864	18	600	450	908	4160	41	600	1000	2029
1866	18	600	600	908					

* Height Include Castor

Specifications subject to change without notice.



Features

- Comply with ANSI/EIA, RS-310-D; IEC297-2; DIN41491: PART 1; DIN41491: PART 7; GB/T3047.2-92 standard, compatible with 19" international standard, metric system and ETSI standard
- Reliable structure, static loading capacity: 800KG
- Caster wheels are available
- Baying cabinets together easily
- Tempered glass front door and steel rear door
- Top and bottom cable entries
- Door can be removed easily
- Optional accessories reliable quality

Rack Cabinet Heavy Duty Series

Specifications

General	
Standards	Comply with ANSI/EIA, RS-310-D, IEC297-2, DIN41491: PART1, DIN41494: PART7, GB/T3047.2-92 & ESTI standard
Materials	SPCC cold rolling steel plate
	Mounting profile: 2.0mm, Others: 1.2mm
	Front door: Glass
Loading Capacity	static loading capacity: 800kg
Surface Finish	The degreasing, pickling, phosphoric, powder coated

Rack				
Model	Capacity (U)	Width (mm)	Depth (mm)	Height (mm)
1866H	18	600	600	985
1868H	18	600	800	985
2266H	22	600	600	1165
2268H	22	600	800	1165
2766H	27	600	600	1390
2768H	27	600	800	1390
3266H	32	600	600	1610
3268H	32	600	800	1610
3766H	37	600	600	1835
3768H	37	600	800	1835
4266H	42	600	600	2055
4268H	42	600	800	2055
4260H	42	600	1000	2055
4280H	42	800	1000	2055

* Height Include Castor

Specifications subject to change without notice.



Rack Cabinet Server Network Series

Features

- Comply with ANSI/EIA, RS-310-D; IEC297-2; DIN41491: PART 1; DIN41491: PART 7; GB/T3047.2-92 standard, compatible with 19" international standard, metric system and ETSI standard
- Reliable structure, static loading capacity: 1500KG
- Adjustable feet and castors options are available
- Baying cabinets together easily
- Double mesh front door & rear door, steel rear door
- Top and bottom cable entries
- Front door, rear door and side panel can be removed easily
- Optional accessories reliable quality
- Front & Rear door with handle lock

General

Standards	Comply with ANSI/EIA, RS-310-D, IEC297-2, DIN41491: PART1, DIN41494: PART7, GB/T3047.2-92 & ESTI standard
Materials	SPCC cold rolling steel plate
	Mounting profile: 2.0mm
	Mesh double front door & double back door
	Others: 1.2mm
Loading Capacity	Static loading capacity: 1500kg
Surface Finish	The degreasing, pickling, phosphoric, powder coated

Specifications

Model	Capacity (U)	Width (mm)	Depth (mm)	Height (mm)	Model	Capacity (U)	Width (mm)	Depth (mm)	Height (mm)
2266ST	22	600	600	1180	4268ST	42	600	800	2080
2268ST	22	600	800	1180	4260ST	42	600	1000	2080
2766ST	27	600	600	1405	4261ST	42	600	1100	2080
2768ST	27	600	800	1405	4280ST	42	800	1000	2080
3266ST	32	600	600	1630	4281ST	42	800	1100	2080
3268ST	32	600	800	1630	4760ST	47	600	1000	2280
3766ST	37	600	600	1855	4761ST	47	600	1100	2280
3768ST	37	600	800	1855	4780ST	47	800	1000	2280
4266ST	42	600	600	2080	4781ST	47	800	1100	2280

* Height Include Castor

Specifications subject to change without notice.



Features

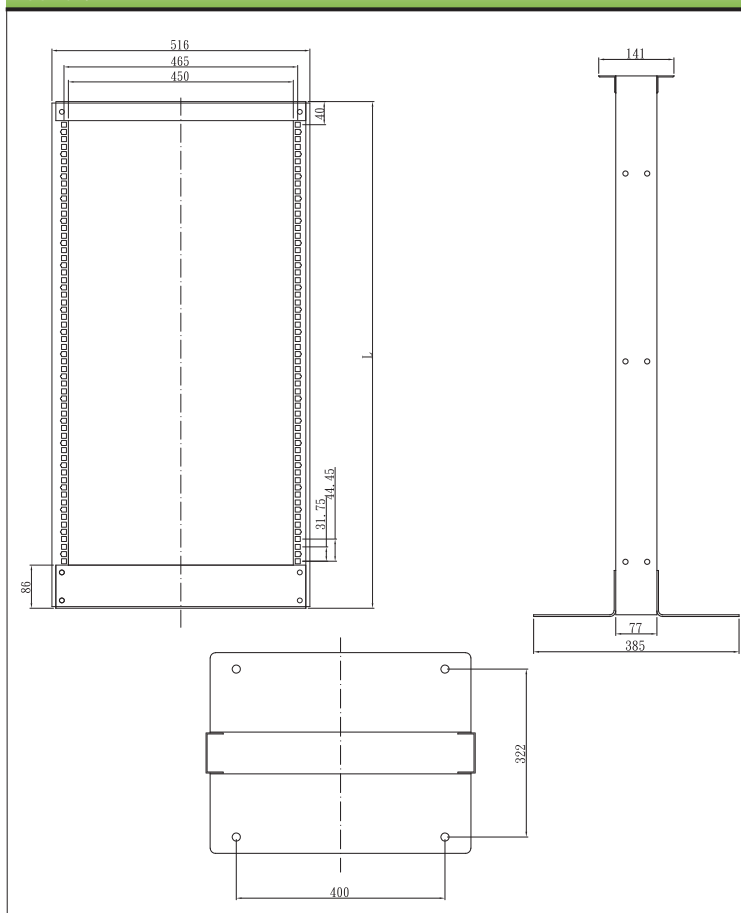
- Comply with ANSI/EIA, RS-310-D, IEC297-2, DIN41491: part 1; DIN41494: part 7; GB/T3047.2-92 standard, compatible with 19" international standard, metric system and ETSI standard.
- Knockdown and simple design, low cost, easy installation
- 19" frame, made by 2mm profiled steel, perforated at both side

Rack Cabinet Open Rack FOR Series

Specifications

Rack		
Model	Capacity (U)	Height (mm)
FOR15	15	790
FOR18	18	930
FOR22	22	1100
FOR27	27	1330
FOR32	32	1550
FOR37	37	1770
FOR40	40	1900
FOR42	42	1990
FOR45	45	2130
FOR47	47	2200

General



Specifications subject to change without notice.

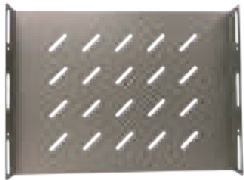


Features

- Easy to installation
- High quality
- Durable ,Reliable and Flexible
- Cost effective

Cabinet Accessories

Specifications

			Model	Description
Fixed Shelf		for Wall Mount Cabinet	RSP-045WM	Fixed shelf plate for 450mm depth cabinet
			RSP-060WM	Fixed shelf plate for 600mm depth cabinet
		for Standard / Heavy Duty Cabinet	RSP-060SH	Fixed shelf plate for 600mm depth cabinet
			RSP-080SH	Fixed shelf plate for 800mm depth cabinet
			RSP-100SH	Fixed shelf plate for 100mm depth cabinet
		for Server Cabinet	RSP-060ST	Fixed shelf plate for 600mm depth cabinet
			RSP-080ST	Fixed shelf plate for 800mm depth cabinet
			RSP-100ST	Fixed shelf plate for 1000mm depth cabinet
			RSP-110ST	Fixed shelf plate for 1100mm depth cabinet
Sliding shelf		for Wall Mount Cabinet	RSS-060WM	Sliding shelf plate for 600mm depth cabinet
		for Standard / Heavy Duty Cabinet	RSS-060SH	Sliding shelf plate for 600mm depth cabinet
			RSS-080SH	Sliding shelf plate for 800mm depth cabinet
			RSS-100SH	Sliding shelf plate for 100mm depth cabinet
		for Server Cabinet	RSS-060ST	Sliding shelf plate for 600mm depth cabinet
			RSS-080ST	Sliding shelf plate for 800mm depth cabinet
			RSS-100ST	Sliding shelf plate for 1000mm depth cabinet
			RSS-110ST	Sliding shelf plate for 1100mm depth cabinet
Keyboard Mouse Plate		for Wall Mount Cabinet	RKP-060WM	Keyboard mouse plate for 600mm depth cabinet
		for Standard / Heavy Duty Cabinet	RKP-060SH	Keyboard mouse plate for 600mm depth cabinet
			RKP-080SH	Keyboard mouse plate for 800mm depth cabinet
			RKP-100SH	Keyboard mouse plate for 100mm depth cabinet
		for Server Cabinet	RKP-060ST	Keyboard mouse plate for 600mm depth cabinet
			RKP-080ST	Keyboard mouse plate for 800mm depth cabinet
			RKP-100ST	Keyboard mouse plate for 1000mm depth cabinet
			RKP-110ST	Keyboard mouse plate for 1100mm depth cabinet

Specifications subject to change without notice.

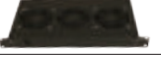


Features

- Easy to installation
- High quality
- Durable ,Reliable and Flexible
- Cost effective

Cabinet Accessories

Specifications

			Model	Description
Blank Plate			RBP-1U	1U Blank plate
			RBP-2U	2U Blank plate
			RBP-3U	3U Blank plate
			RBP-4U	4U Blank plate
Drawer			RDR-2U	2U Drawer
			RDR-3U	3U Drawer
			RDR-4U	4U Drawer
Cable Management		Horizontal	RMH-1U	1U Cable management
			RMH-2U	2U Cable management
		Vertical	RMV-42UH	42U Vertical Cable management for heavy duty cabinet
			RMV-42ST	42U Vertical Cable management for server cabinet
L Guide Rail		Shunting Rail	RSR-1U	1U Shunting Rail
			RLG-060	L Guide rail for 600mm (2pcs/set)
			RLG-080	L Guide rail for 800mm (2pcs/set)
			RLG-100	L Guide rail for 1000mm (2pcs/set)
AC Fan			RFN-02F	1U Rack cabinet dual AC fan
			RFN-04F	1U Rack cabinet quad AC fan
Power Bar			RPB-07SW	1.5U BS13A 7 way power bar with switch
			RPB-08	1.5U BS13A 8 way power bar
			RPB-06SP	1.5U BS13A 6 way power bar surge portect
			RPB-08SP	1.5U BS13A 8 way power bar surge portect
Door Lock			RDL-01	Rack side panel flat circular lock w/key
			RDL-02	Front door flat circular Handles lock w/key
			RDL-03	Front door flat circular lock w/key
Other			RSN-M6	M6 Screw nut for rack cabinet
			RLB-01	Rack cabinet interlock bracket

Specifications subject to change without notice.

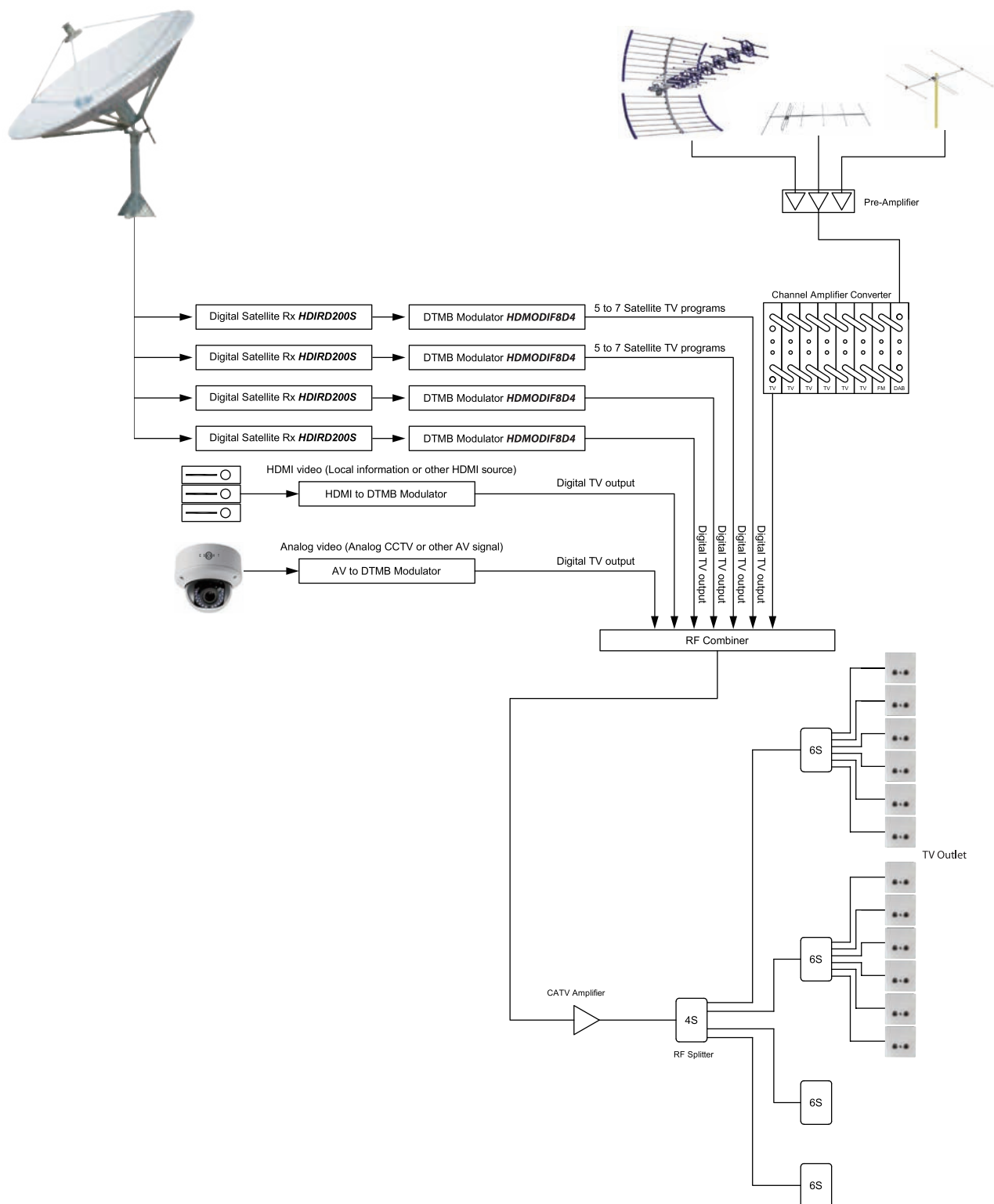
香港電視廣播服務頻率表 - 數碼地面電視

電視發射站地點	電視服務/發射頻率					
	81. 翡翠台 96. ViuTV(English) 99. ViuTV(Chinese)		82. J2台 83. 互動新聞台 84. 明珠台 85. J5台		31. 港台電視 31 32. 港台電視 32 33. 港台電視 33	
	電視頻道	中心頻率 (MHz)	電視頻道	中心頻率 (MHz)	電視頻道	中心頻率 (MHz)
慈雲山	22	482.00	35	586.00	62	802.00
青山	43	650.00				
飛鵝山	32	562.00				
金山	40	626.00				
九龍坑山	30	546.00				
南丫島	30	546.00				
最高信山	41	634.00				
西灣山 (柴灣)	28	530.00				
南朗山	26	514.00				
砵甸乍山	56	754.00				
赤柱	36	594.00				
元朗374山	28	530.00				
琵琶山	59	778.00				
紅花嶺	36	594.00				
長洲	58	770.00				
大欖涌141山	32	562.00				
大埔仔	40	626.00				
大澳	52	722.00				
元朗297山	56	754.00				
大嶼山275山	24	498.00				
上洋山	59	778.00				
筆架山	58	770.00				
照鏡環山	28	530.00				
鴨脷洲及香港仔	26	514.00				
九華徑	40	626.00				
營盤	43	650.00				
深井	24	498.00				
東涌	58	770.00				
薄扶林	30	546.00				
馬灣	52	772.00				

香港電視頻道表-數碼中心頻率

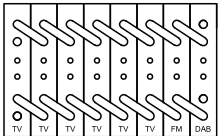
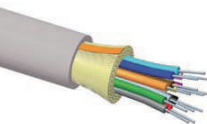
頻道	頻率 (MHz)	頻道	頻率 (MHz)
C1	58	E21	474
C2	66	E22	482
C3	74	E23	490
C4	82	E24	498
C5	90	E25	506
C6	98	E26	514
C7	106	E27	522
C8	114	E28	530
C9	122	E29	538
C10	130	E30	546
C11	138	E31	554
C12	146	E32	562
C13	154	E33	570
C14	162	E34	578
C15	170	E35	586
C16	178	E36	594
C17	186	E37	602
C18	194	E38	610
C19	202	E39	618
C20	210	E40	626
C21	218	E41	634
C22	226	E42	642
C23	234	E43	650
C24	242	E44	658
C25	250	E45	666
C26	258	E46	674
C27	266	E47	682
C28	274	E48	690
C29	282	E49	698
C30	290	E50	706
C31	298	E51	714
C32	306	E52	722
C33	314	E53	730
C34	322	E54	738
C35	330	E55	746
C36	338	E56	754
C37	346	E57	762
C38	354	E58	770
C39	362	E59	778
C40	370	E60	786
C41	378	E61	794
C42	386	E62	802
C43	394	E63	810
C44	402	E64	818
C45	410	E65	826
C46	418	E66	834
C47	426	E67	842
C48	434	E68	850
C49	442	E69	858
C50	450		
C51	458		
C52	466		

General CABD System Schematic Diagram



Specifications subject to change without notice.

Legend

	Satellite Antenna S300A-P, S370A-P S450A-P, S600A-P ST-7, ST-10, ST-12 (Solid and Mesh antenna are available)		TV Antenna AC-42, AC-90, MAX90 AC42, AC44, AC90, MAX90, BA50, BA60
	FM Antenna AN6005U		Pre-Amplifier ENGEL AM6115K (With DAB) FAGOR AMB835 (With DAB)
	Channel Amplifier/Converter FAGOR NEXUM series EIGHT MMH3000 series EIGHT EH400 series	Digital MOD AV to DTMB Modulator HDMI to DTMB Modulator	DTMB Modulator HDMI to DTMB Modulator DMOD1200MS AV to DTMB Modulator DMODAV1
Digital MOD Digital Satellite Rx HDRD200S → DTMB Transmodulator HDMODIF8D4	Satellite to DTMB Transmodulator HDIRD200S + HDMODIF8D4		CATV/Distribution Amplifier AMP86234AITRM, TA860, DA86228NR, DA86234NR
Analog MOD	Analog TV Modulator VSB Modulator MOD862VSB DSB Modulator MOD47862DSB	2S 3S 4S 6S 8S	RF Splitter/ Combiner PAS SPL X (X=2, 3, 4, 6 or 8 way)
2T 4T	Tap 2 way Tap: TAP2-XX (XX=8,10,12) 4 way Tap: TAP4-XX (XX=12,14,16)		TV Outlet TV15F, TV25F WP101, WP102 WP001L, WP002L X-SERIES
Coaxial Cable	Coaxial Cable RG 6 Cable CS660BV, CS690BV CS660BV_LSZH	Coaxial Cable	Coaxial Cable RG 11 Cable CS1160BV, CS1190BV CS1160BV_LSZH
	CATV Optical Transmitter SHQ-OFT		CATV Optical Receiver N860T-AE N860T-B
	Fiber Cable Single mode Multimode (2,4,6,8,12 ..24 cores...)		Optical Splitter 1x2, 1x4, 1x8, 1x16, 1x32, 1x64, 1x128

Specifications subject to change without notice.



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