



TVCABLE.COM, C.A

Dirección: Carretera a Perijá, Km 3 ½ con Avenida Unión, Nro. 8-86, Maracaibo, Edo. Zulia, Venezuela

Website: www.tvcableve.com

Whatsapp: +1(954) 330-1802 / +58 414-3607853

Contact person: Maria Nunez / Alejandra Acosta

Email: mari.nunez@tvcableve.com

FTTH Outline of Catalog

1.P1:FTTH Solution Layout

2.Category products

2.1 P2-3: OLT

2.2 P4 :power supply(Rectifier)

2.3 P5 : ONU(miniONU)

2.4 P6 : Router/Repeater/AP

2.5 P7-9:EDFA,optical receiver

2.6 P10:Switch

2.7 P10:SFP module

2.8 P11:Patch cord

2.9 P11:Optic Splitter

2.10 P12:Terminal box/FDB/NAP/CAJAS

2.11 P13-P14:Splice closure

2.12 P15:ODF/Cabinet/RACK

2.13 P16:Optic fiber cable

2.14 P17:Cable Metal disassembled parts

2.15 P18:Fusion splicer

2.16 P18:OTDR

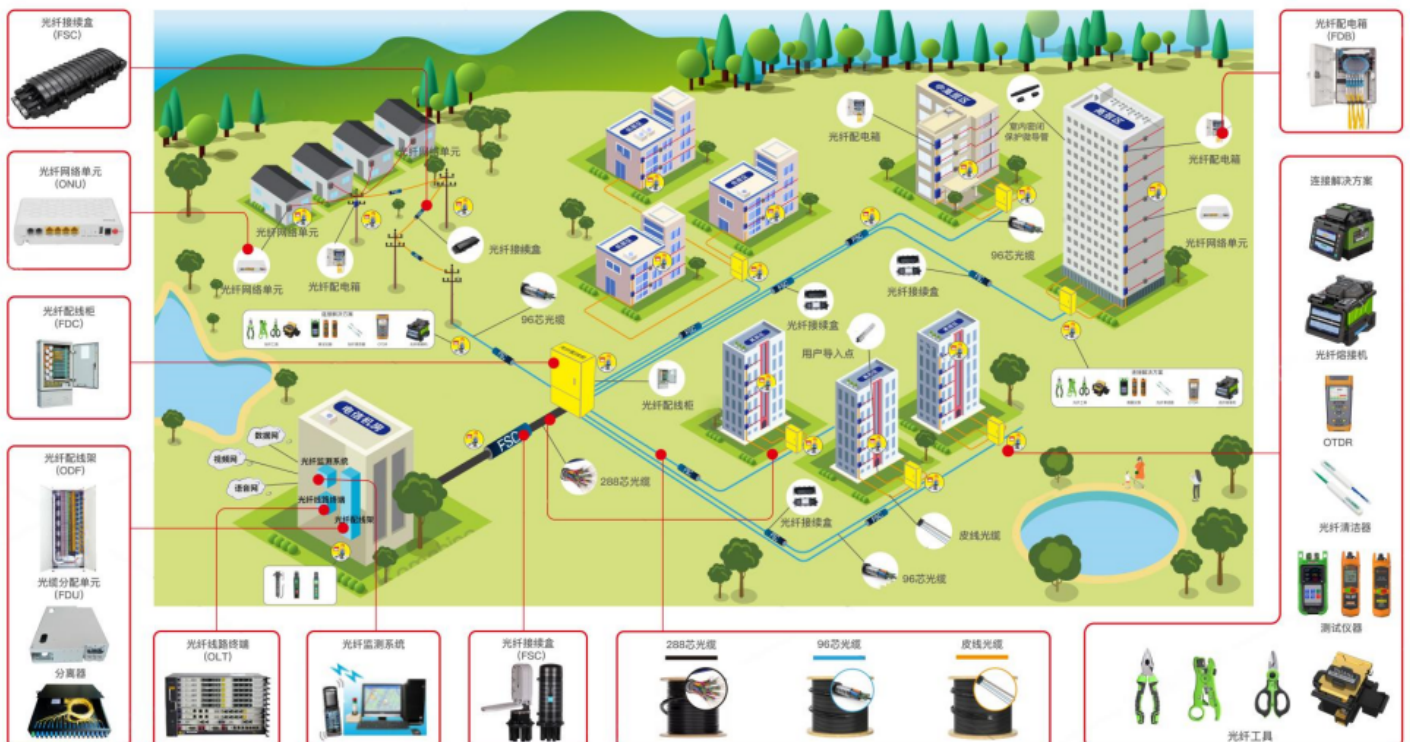
2.17 P19:Optic tools

2.18 P20:STB box/TV box

2.19 P21:Optic accessories

2.20 P22-P23:(Encoder Modulator)

2.21 P24:UPS, miniUPS





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2.1 Category Products-OLT

No.	Model	configuration	remarks
1	AN5516-01 (19inch) DC 1G	1.Control Board: HSWA*2 2.Uplink Board: GU6F*2 3.Power Board: PWR*2	
2	AN5516-01 (19inch) DC 10G	1.Control Board: HSWA*2 2.Uplink Board: HU1A*2 3.Power Board: PWR*2	
3	AN5516-06 (19inch) DC 1G	1.Control Board: HSWA*2 2.Uplink Board: GU6F*2 3.Power Board: PWR*2	
4	AN5516-06 (19inch) DC 10G	1.Control Board: HSWA*2 2.Uplink Board: HU1A*2 3.Power Board: PWR*2	
5	AN5516-04 (19inch)DC 1G	1.Control&Uplink Board:HSUC*2 2.Power Board: PWRD*1	
6	AN5516-04 (19inch)DC 10G	1.Control&Uplink Board:HSUB*2 2.Power Board: PWRD*1	
7	AN5516-04 (19inch)AC 1G	1.Control&Uplink Board:HSUC*2 2.Power Board: PWRA*1	
8	AN5516-04 (19inch)AC 10G	1.Control&Uplink Board:HSUB*2 2.Power Board: PWRA*1	
9	GPON GC8B C+	8ports contains 8pcs SFPs modules C+, works for AN5516 series OLT	
10	GPON GC8B C++	8ports contains 8pcs SFPs modules C++, works for AN5516 series OLT	
11	GPON GCOB C+	16ports contains 16pcs SFPs modules C+, works for AN5516 series OLT	
12	GPON GCOB C++	16ports contains 16pcs SFPs modules C++, works for AN5516 series OLT	
13	EPON EC8B PX20+	8ports contains 8pcs SFPs modules PX20+, works for AN5516 series OLT	
14	EPON ECOB PX20+	16ports contains 16pcs SFPs modules PX20+, works for AN5516 series OLT	
15	MA5680T IEC (19inch) DC 1G	1.Control Board: SCUN*2 2.Uplink Board: GICF*2 3.Power Board: PRTE*2	This series stopped replaced by MA5800 serious
16	MA5680T IEC (19inch) DC 10G	1.Control Board: SCUN*2 2.Uplink Board: X2CS*2 3.Power Board: PRTE*2	
17	MA5683T (19inch) DC 1G	1.Control Board: SCUN*2 2.Uplink Board: GICF*2 3.Power Board: PRTE*2	
18	MA5683T (19inch) DC 10G	1.Control Board: SCUN*2 2.Uplink Board: X2CS*2 3.Power Board: PRTE*2	
19	MA5608T (19inch)DC 1G	1.Control&Uplink Board:MCUD*2 2.Power Board: MPWC*1	
20	MA5608T (19inch)DC 10G	1.Control&Uplink Board:MCUD01*2 2.Power Board: MPWC*1	
21	MA5608T (19inch)AC&DC 1G	1.Control&Uplink Board:MCUD*2 2. Power Board: MPWD*1	
22	MA5608T (19inch)AC&DC 10G	1.Control&Uplink Board:MCUD01*2 2.Power Board: MPWD*1	
23	GPON GPBD C+	8ports contains 8pcs SFPs modules C+, works for MA5600 series OLT	
24	GPON GPBD C++	8ports contains 8pcs SFPs modules C++, works for MA5600 series OLT	
25	GPON GPFD C+	16ports contains 16pcs SFPs modules C+, works for MA5600 series OLT	
26	GPON GPFD C++	16ports contains 16pcs SFPs modules C++, works for MA5600 series OLT	
27	EPON EPBD PX20+	8ports contains 8pcs SFPs modules PX20+, works for MA5600 series OLT	
28	EPON EPFD PX20+	16ports contains 16pcs SFPs modules PX20+, works for MA5600 series OLT	
29	MA5800-X2 2slots AC & DC	1. Main control board: MPSC*2(10GE*2+1GE*2) 2..Power board:PISB*1 3. FAN:FMSM	Recommend this series
30	MA5800-X2 2slots AC & DC	1. Main control board: MPSC*2(10GE*4) 2.Power board:PISB*1 3. FAN:FMSM	
31	MA5800-X2 DC	1. Main control board: MPSC*2 (10GE*2+1GE*2) 2.Power board:PISA*1 3. FAN:FMSM	
32	MA5800-X2 DC	1. Main control board: MPSC*2 (10GE*4) 2.Power board:PISA*1 3. FAN:FMSM	
33	MA5800-X7 DC	1. Main control board: MPLA*2 2.Power board:PILA*2 3. FAN:FMLA/FMMA	
34	MA5800-X15 DC	1. Main control board: MPLA*2 2. Power board:PILA*2 3. FAN:FMLA/FMMA	
35	MA5800-X17 DC	1. Main control board: MPLA*2 2. Power board:PILA*2 3. FAN:FMLA/FMMA	
36	GPON GPHF C+	16ports contains 16pcs SFPs modules C+ (apply to OLT MA5800X2,X7,X15,X17)	
37	GPON GPHF C++	16ports contains 16pcs SFPs modules C++ (apply to OLT MA5800X2,X7,X15,X17)	



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38	XGPON XGHD N1	8ports contains 8pcs SFPs modules XGPON N1 (apply to OLT MA5800X2,X7,X15,X17)	
39	XGPON XGHD N2a	8ports contains 8pcs SFPs modules XGPON N2a (apply to OLT MA5800X2,X7,X15,X17)	
40	XGPON CGHF N2a	16ports contains 16pcs SFPs modules XGPON N2a (apply to OLT MA5800X2,X7,X15,X17)	
41	C300 (19inch) DC 1G	Control Board: SCXN*2 Uplink Board: GUFQ*2 Power Board: PRWH*2	
42	C300 (19inch) DC 10G	Control Board: SCXN*2 Uplink Board: HUVQ*2 Power Board: PRWH*2	
43	C320 (19inch) DC 1G	Single Control &Uplink&Power Board: SMXA/1*2	
44	C320 (19inch) DC 10G	Control&Uplink &Power Board:SMXA/3*2	
45	C320 (19inch) AC&DC 1G	SingleControl&Uplink&Power Board:SMXA/1 *1 Single power board: PRAM*1	
46	C320 (19inch) AC&DC 10G	SingleControl&Uplink&Power Board:SMXA/3 *1 Single power board: PRAM*1	
47	GPON GTGO C+	8ports contains 8pcs SFPs modules C+,work for C300, C320 OLT	
48	GPON GTGO C++	8ports contains 8pcs SFPs modules C++,work for C300, C320 OLT	
49	GPON GTGH C+	16ports contains 16pcs SFPs modules C+,work for C300, C320 OLT	
50	GPON GTGH C++	16ports contains16pcs SFPs modules C++,work for C300, C320 OLT	
51	EPON ETGOD PX20+	8ports contains 8pcs SFPs modules PX20+,work for C300, C320 OLT	
52	EPON ETGHD PX20+	16ports contains 16pcs SFPs modules PX20+,work for C300, C320 OLT	



MA5800-X17



MA5800-X15



MA5800-X7



MA5800-X2



GPON GPHF C+/C++



XGPON XGHD N1/N2a



SmartAX MA5800T



SmartAX MA5800T



SmartAX MA5800T



C300



C320



GTGH C+/C++



GTGO C+/C++



C600



C650





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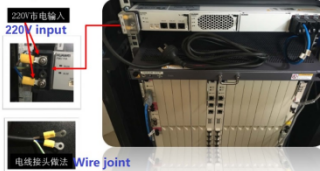
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2.2 Category Products-power supply(Rectifier)

No.	model	configuration
1	power supply	PSU-AC 30A 2-way AC input 100V-240V to 48V- 53V (apply to all brands OLT)
2	power supply	ETP48100-B1 50A R4850G*1 100V-240V to 48V- 53V (apply to all brands OLT)
3	power supply	ETP48100-B1 100A R4850G*2 100V-240V to 48V- 53V (apply to all brands OLT)
4	GYE power supply (Same as Emerson)	GYE EPS30-4815AF 30A 100V-240V to 48V- 53V (apply to all brands OLT)
5	power supply	ETP4830-A1 30A with monitor module #SMU01C 100V-240V to 48V- 53V (apply to all brands OLT)
6	power supply	ETP4890-A2 30A 100V-240V to 48V- 53V (apply to all brands OLT)
7	power supply	ETP48400-C9A6 , 8pcs x R4850G , 48V/400A



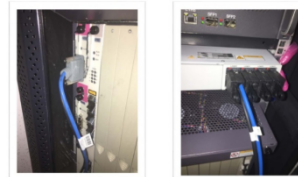
OLT电源的市电接线方法: OLT power supply connect method



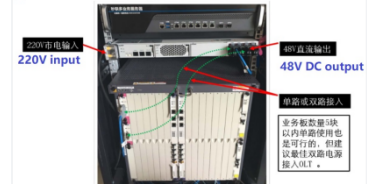
直流输出插头的接法: DC output plug connect method



OLT直流电线接法: OLT DC wire connection method



OLT和电源的接线方法:





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2.3 Category Products-ONU/ONT (Customized)

No	Model	configuration	remarks	package /carton	remarks
1	Gpon AN5506-01Amini	1GE(Bridge)	EU, US, AR, AU,EK...plug for optional	20pcs, 5.2kgs 48*32*19cm	
2	Gpon AN5506-02B	1GE+1FE+1tel (PPPoE)	EU, US, AR, AU,EK...plug for optional	20pcs, 8kgs 50*31*24cm	
3	Gpon AN5506-02FG	1GE+1FE+1tel +WIFI	EU, US, AR, AU,EK...plug for optional	10pcs, 5.6kgs 47*37*29cm	
4	Gpon G-140W-MF	4GE+1tel +1USB+WIFI dual band ac wifi 2.4G+5G	SC/UPC, EU, US, AR, AU,EK...plug for optional	15pcs, 8.7kgs 57*32*28cm	
5	Gpon G-140W-C	4GE+1tel +1USB+WIFI dual band ac wifi 2.4G+5G	SC/UPC, EU, US, AR, AU,EK...plug for optional	10pcs, 9kgs 49*41*32cm	
6	Gpon G-140W-MD	1GE+3FE+1tel +USB+WIFI	SC/UPC, EU, US, AR, AU,EK...plug for optional	20pcs, 7.2kgs 50*27*26cm	
7	Micro ONU -UPC	1GE Support: IPV4/IPV6/Firewall/ACL/Loop detect/DHCP Compatible with HW/FH/ZTE/V-SOL/NOKIA...	Comes with Type-C cable Adapter for optional	12pcs/small box 720pcs/carton, 55*52*25cm, 27kgs	
8	Micro ONU -APC	1GE Support: IPV4/IPV6/Firewall/ACL/Loop detect/DHCP Compatible with HW/FH/ZTE/V-SOL/NOKIA...	Comes with Type-C cable Adapter for optional	12pcs/small box 720pcs/carton, 55*52*25cm, 27kgs	
9	Gpon F601v6.0	1GE(Bridge)	SC/UPC EU, US, AR, AU,EK...plug for optional	40pcs, 13.5kgs 60*31*35cm	
10	Gpon F612V6.0	1GE +1FE+1POT	SC/UPC, EU, US, AR, AU,EK...plug for optional	20pcs, 7.5kgs 38*30*37cm	
11	Gpon F660V6.0	1GE+3FE+1tel +USB+WIFI	SC/UPC, EU, US, AR, AU,EK...plug for optional	20pcs, 11.5kgs 50*30*42cm	
12	Gpon F660V5.0	4FE+2tel +USB+WIFI	SC/UPC, EU, US, AR, AU,EK...plug for optional	20pcs, 10.8kgs 50*30*42cm	
13	Gpon F663N V3a	1GE+3FE+1tel +USB+ WIFI	SC/UPC, China Mobile logo EU, US, AR, AU,EK...plug for optional	40pcs, 15kgs 40*40*37cm	
14	Gpon F660V8.0 5dBi	1GE+3FE+1tel +USB+ WIFI	SC/UPC, external antenna EU, US, AR, AU,EK...plug for optional	20pcs, 9.5kgs 48*30*37cm	
15	Gpon F609V5.2 5dBi	4GE+1tel +USB+ WIFI	SC/UPC, external antenna EU, US, AR, AU,EK...plug for optional	20pcs, 13.5kgs 57*40*37cm	
16	GPON ONU F670Lv1.0 12 lights	4GE+1tel +1USB+WIFI dual band ac wifi 2.4G+5G	SC/UPC, external antenna EU, US, AR, AU,EK...plug for optional	20pcs, 13.5kgs 44*26*47cm	
17	GPON ONU F670Lv7.1 5 lights without on/off button	4GE+1tel +1USB+WIFI dual band ac wifi 2.4G+5G	SC/UPC, external antenna EU, US, AR, AU,EK...plug for optional	20pcs, 13.5kgs 44*26*47cm	
19	Gpon F680v1.1	4GE+1tel +1USB+WIFI dual band ac wifi 2.4G+5G	SC/UPC, external antenna EU, US, AR, AU,EK...plug for optional	20pcs, 10.8kgs 43*30*44cm	



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2.4 Category Products-Router / Repeater /AP

No.	model	configuration	pictures
1	BL-WR450H IPV4	300Mbps High Gain Smart wireless NAP/Router, 2.4Ghz, up to 300Mbps 1x10/100M self-adaptive WAN 2x10/100M self-adaptive LAN	
2	BL-W1210M	11AC 1200Mbps Wireless Dual band router 4*5dBi high-gain Omni Directional Antennas 2.4GHz,5GHz, Up to 1200Mbps 1x10/100Mbps WAN port 4x10/100Mbps LAN port	
3	BL-WR1300H IPV6	11AC 1200Mbps Wireless Dual Band Gigabit port Router11AC (2.4G+5G) 2.4GHz: IEEE802.11 n/ g/ b; 5.0GHz: IEEE 802.11a c/n /a /u/ab 4*6dBi antennas High Range/IPTV/VLAN/VPN/MU-MIMO 2.4GHz,5GHz, Up to 1200Mbps 1x10/100/1000Mbps WAN port 4x10/100/1000Mbps LAN port	
4	BL-AX1800 WiFi6 Router IPV6	Processor:1.5GHz Quad-Core CPU 3x RJ45 1000/100/10M Lan LED Ports 1 x RJ45 1000/100/10M WAN LED Ports 4*5dBi Fixed Qmni-Direction Antennas IEEE802.11ax/ac/a 5GHz IEEE802.11ax/ac/a 2.4GHz US power 12V 1A	
5	BL-WR450D	300M Wireless NAP/Router (1+2 LAN)/ Multi-Mode 6 in1/4*5dBi antennas /superadmin management funciton 4+32RAM tr069 similar DLINK SOFTWARE	
6	Tenda F3	300Mbps 3x5dBi external undetachable antennas 300Mbps over 2.4GHz band 10/100Mbps WAN port*1 10/100Mbps LAN ports*3 Standard& Protocol: IEEE802.11/b/g/n 9V 0.6A	
7	Tenda AC5s AC1200	Standard& Protocol:IEEE802.3, IEEE802.3u Interface: 10/100Mbps WAN port*1 10/100Mbps LAN ports*3 4*5dBi external dual band antennas IEEE 802.11ac/a/n @5GHz IEEE 802.11b/g/n @2.4GHz Input: AC 100-240V—50/60Hz Output: DC 9V 1A	
8	Tenda router MESH MW3	IEEE 802.11ac/a/n 5GHz IEEE 802.11b/g/n 2.4GHz 2 *10/100 Ethernet ports per mesh node 2*3dBi internal dual band antennas 3pcs/pack, 12V 1A	
9	Tenda router MESH MW6	IEEE 802.11ac/a/n 5GHz IEEE 802.11b/g/n 2.4GHz 2 *10/100/1000 Ethernet ports per mesh point 2*3dBi dual band antennas 3pcs/pack, 12V 1.5A	
10	netis N6T	Wi-Fi 6 AX1800 WiFi6 Dual Band Router IEEE 802.11ax/ac/n/a 5 GHz IEEE 802.11ax/n/b/g 2.4 GHz Protocols:IPv4, IPv6 1×Gigabit WAN Port 3×Gigabit LAN Ports Support TR069 TR181 TR143	
11	grandstream Router HT812	Powerful 2-port ATA with Gigabit NAT Router 2 FXS ports and an integrated Gigabit NAT router	
12	grandstream Router HT814	Powerful 4 port FXS Gateway with Gigabit NAT Router 4 FXS ports and an integrated Gigabit NAT router	
13	grandstream Router HT818	Powerful 8 port FXS Gateway with Gigabit NAT Router 8 FXS ports and an integrated Gigabit NAT router	



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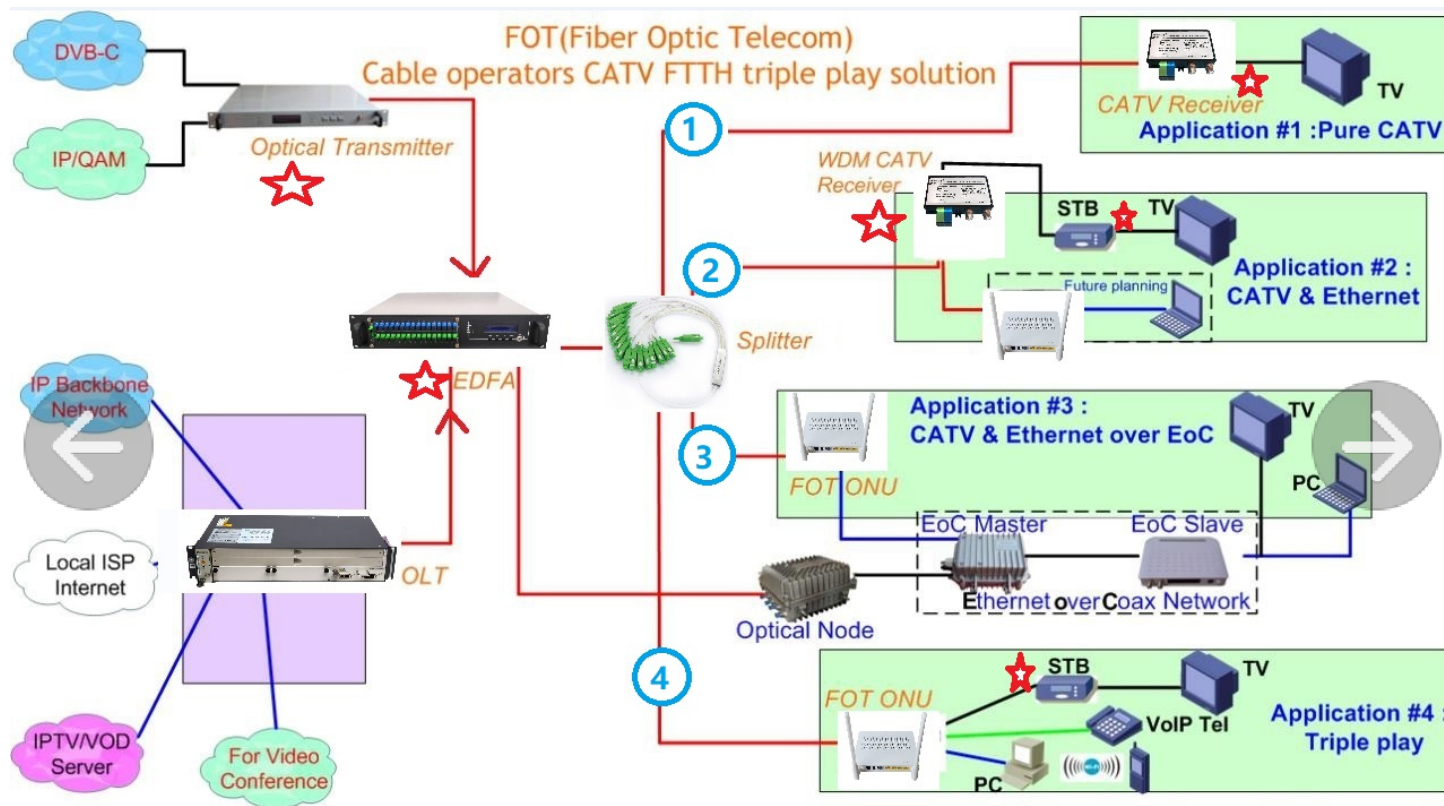
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2.5 Category Products-EDFA, WDM,CATV transmitter



code no.	model no.	description	remarks	picture
Directly modulated optical transmitter				
GQSFG.001	OT8510B	1550NM-10DB ,Transmission distance 25KM	AC power , EU/US/UK power cord for optional	
GQSFG.002	OT8510C	1550NM-10DB ,Transmission distance 35KM		
GQSFG.003	OT8510D	1550NM-10DB ,Transmission distance 42KM		
Externally modulated optical transmitter / optical CATV transmitter 1550nm External modulation				
GQSFG.004	WT1550-2*7	1550nm,2*7dB Adjustable output power	AC power , EU/US/UK power cord for optional	
GQSFG.005	WT1550-2*8	1550nm,2*8dB Adjustable output power		
GQSFG.006	WT1550-2*9	1550nm,2*9dB Adjustable output power		
GQSFG.007	WT1550-2*10	1550nm,2*10dB Adjustable output power		
EDFA optical fiber amplifier				
GQSFG.008	EDFA 4*16 DB	4 Port 16dBm CATV 1550nm EDFA	dual power supply 220V	
GQSFG.009	EDFA 4*16 DB with WDM	4 Port 16dBm CATV 1550nm EDFA with WDM		
GQSFG.010	EDFA 8*18 DB	8 Port 18dBm CATV 1550nm EDFA	482*360*44mm, 11kgs	
GQSFG.011	EDFA 8*18 DB with WDM	8 Port 18dBm CATV 1550nm EDFA with WDM		
GQSFG.012	EDFA 8*19 DB	8 Port 19dBm CATV 1550nm EDFA		
GQSFG.013	EDFA 8*19 DB with WDM	8 Port 19dBm CATV 1550nm EDFA with WDM		
GQSFG.014	EDFA 8*20 DB	8 Port 20dBm CATV 1550nm EDFA		



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GQSFK.015	EDFA 8*20 DB with WDM	8 Port 20dBm CATV 1550nm EDFA with WDM		
GQSFK.016	EDFA 8*21 DB	8 Port 21dBm CATV 1550nm EDFA		
GQSFK.017	EDFA 8*21 DB with WDM	8 Port 21dBm CATV 1550nm EDFA with WDM		
GQSFK.018	EDFA 8*22 DB	8 Port 22dBm CATV 1550nm EDFA		
GQSFK.019	EDFA 8*22 DB with WDM	8 Port 22dBm CATV 1550nm EDFA with WDM		
GQSFK.020	EDFA 8*23 DB	8 Port 23dBm CATV 1550nm EDFA		
GQSFK.021	EDFA 8*23 DB with WDM	8 Port 23dBm CATV 1550nm EDFA with WDM		
GQSFK.022	EDFA 16*18 DB	16 Port 18dBm CATV 1550nm EDFA	482*450*89mm, 11kgs	
GQSFK.023	EDFA 16*18 DB with WDM	16 Port 18dBm CATV 1550nm EDFA with WDM		
GQSFK.024	EDFA 16*19 DB	16 Port 19dBm CATV 1550nm EDFA		
GQSFK.025	EDFA 16*19 DB with WDM	16 Port 19dBm CATV 1550nm EDFA with WDM		
GQSFK.026	EDFA 16*20 DB	16 Port 20dBm CATV 1550nm EDFA		
GQSFK.027	EDFA 16*20 DB with WDM	16 Port 20dBm CATV 1550nm EDFA with WDM		
GQSFK.028	EDFA 16*21 DB	16 Port 21dBm CATV 1550nm EDFA		
GQSFK.029	EDFA 16*21DB with WDM	16 Port 21dBm CATV 1550nm EDFA with WDM		
GQSFK.030	EDFA 16*22 DB	16 Port 22dBm CATV 1550nm EDFA		
GQSFK.031	EDFA 16*22 DB with WDM	16 Port 22dBm CATV 1550nm EDFA with WDM		
GQSFK.032	EDFA 16*23 DB	16 Port 23dBm CATV 1550nm EDFA		
GQSFK.033	EDFA 16*23 DB with WDM	16 Port 23dBm CATV 1550nm EDFA with WDM		
GQSFK.034	EDFA 32*18 DB	32 Port 18dBm CATV 1550nm EDFA	482*450*89mm, 11kgs	
GQSFK.035	EDFA 32*18 DB with WDM	32 Port 18dBm CATV 1550nm EDFA with WDM		
GQSFK.036	EDFA 32*19 DB	32 Port 19dBm CATV 1550nm EDFA		
GQSFK.037	EDFA 32*19 DB with WDM	32 Port 19dBm CATV 1550nm EDFA with WDM		
GQSFK.038	EDFA 32*20 DB	32 Port 20dBm CATV 1550nm EDFA		
GQSFK.039	EDFA 32*20 DB with WDM	32 Port 20dBm CATV 1550nm EDFA with WDM		
GQSFK.040	EDFA 32*21 DB	32 Port 21dBm CATV 1550nm EDFA		
GQSFK.041	EDFA 32*21 DB with WDM	32 Port 21dBm CATV 1550nm EDFA with WDM		
GQSFK.042	EDFA 32*22 DB	32 Port 22dBm CATV 1550nm EDFA		
GQSFK.043	EDFA 32*22 DB with WDM	32 Port 22dBm CATV 1550nm EDFA with WDM		
GQSFK.044	EDFA 32*23 DB	32 Port 23dBm CATV 1550nm EDFA		
GQSFK.045	EDFA 32*23 DB with WDM	32 Port 23dBm CATV 1550nm EDFA with WDM		
GQSFK.046	EDFA 32*23 DB dual input	1550NM Multiport EYDFA(32*23dBm,Dual power supply 90-260V+48V,dual inputs,fiber inputs SC/APC,OLT inputsSC/APC)	482*450*89mm, 11kgs	
GQSFK.047	EDFA 32*23 DB dual input with WDM	1550NM Multiport EYDFA(32*23dBm,with built in WDM,Dual power supply 90-260V+48V,dual inputs,fiber inputs SC/APC,OLT inputsSC/APC)		
GQSFK.048	EDFA, 16port, 22DB, with WDM+1550nm Directly modulated optical transmitter	SC/APC 22DB 1550nm 16ports output CATV EDFA combiner with WDM 1550nm optic transceiver +EDFA GPON for CATV	482*450*89mm, 11kgs	
Optical receiver				
GQSFK.049	HS-OR1 (80*27*24mm)	Single port output, when 0dBm optical input, the output level is 65dBm receiving range 1100-1600nm, without WDM		



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 Whatsapp: +1(954) 330-1802 / +58 414-3607853
 Contact person: Maria Nunez / Alejandra Acosta
 Email: mari.nunez@tvcableve.com

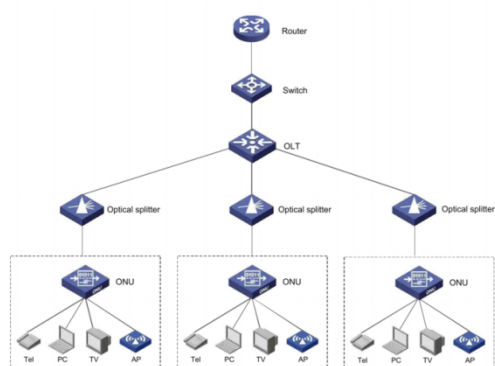
GQSFQ.050	OR101WA	Single port output, when 0dBm optical input, the output level is 65dBm receiving range 1310+1490+1550, with WDM	
GQSFQ.051	OR101WA	dual port output, when 0dBm optical input, the output level is 65dBm receiving range 1310+1490+1550, with WDM	
GQSFQ.052	HS-OR22A	Two-stage GaAs low noise amplifier circuit Light control AGC control range +2~-15dBm, output level 80dBm OR22: receiving range -18dBm; 5V Without WDM 1100~1600 nm OR 1550nm	
GQSFQ.053	HS-OR23	High-quality housing RF channel two-stage GaAs low-noise amplifier circuit. AGC control range 0-15dBm/80; dual port output. Supply voltage: 5V Without WDM	
GQSFQ.054	HS-OR23B	High-quality housing RF channel two-stage GaAs low-noise amplifier circuit. AGC control range: 0-15dBm/100; dual port output. Supply voltage: 5V Without WDM	
GQSFQ.055	HS-OR23W	High-quality housing RF channel two-stage GaAs low-noise amplifier circuit. With optical fiber sub-wave interface, optical fiber connector is optional. AGC control range 0-15dBm/80; dual port output. Supply voltage: 5V With WDM	
GQSFQ.056	HS-OR23BW	High-quality housing RF channel two-stage GaAs low-noise amplifier circuit. AGC control range 0-15dBm/100 dBuv; dual-port output. Supply voltage: 5V With WDM	
GQSFQ.057	HS-OR31	High-quality housing RF channel two-stage GaAs low-noise amplifier circuit. AGC control range: 0~-15dBm/80dBuv; dual-port output. Supply voltage: 5V Without WDM	
GQSFQ.058	HS-OR31WD	High-quality housing RF channel two-stage GaAs low-noise amplifier circuit. With WDM subwave, subwave fiber port is optional, AGC control range: 0~-15dBm/80dBuv; dual-port output. Supply voltage: 5V With WDM	
GQSFQ.059	HS-FTTB-OR31	High-quality housing RF channel two-stage GaAs low-noise amplifier circuit. AGC control range: 0~-15dBm/100dBuv; dual-port output. Supply voltage: 5V Without WDM	
GQSFQ.060	HS-FTTB-OR31B	High-quality housing RF channel two-stage GaAs low-noise amplifier circuit. With WDM subwave, subwave fiber port is optional, AGC control range: 0~-15dBm/100dBuv; dual-port output. Supply voltage: 5V With WDM	
GQSFQ.061	HS--OR21W	Received optical power range +2db~-18dbm, optical control AGC range: +2~-10dbm, output level is greater than 88dbuv, power input +5VDC~+14VDC, power consumption is less than 2W, optical fiber connector optional, With WDM	



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2.6 Category Products-Switch



CloudEngine S6730-H48X6C



NE40E-X8



NE40E-X3A



CloudEngine S5731-S32ST4X-A

No.	model	Desc
1	Switch S6730-H48X6C	S6730-H48X6C (48x 10GE SFP+, 6x 40GE QSFP28)
2	CloudEngine S5731-S32ST4X-A	24 x GE SFP ports, 8 x 10/100/1000Base-T Ethernet ports, 4 x 10GE SFP+ ports,
3	Switch S6720-54C-EI-48S	48 x 10 Gig SFP+, 2 x 40 Gig QSFP+
4	NetEngine 8000 M1A	NetEngine 8000 M1A basic configuration include M1A chassis, ports 6*10GE+26*GE 1*AC power supply include software and data support BGP protocol

2.7 Category Products-SFP module



No.	module	description
1	OLT uplink board SFP modules	Huawei 1G-1310nm-10km-SM-SFP+
		Huawei 1G-1310nm-40km-SM-SFP+
		Huawei 10G-1310nm-10km-SM-SFP+
		ZTE SM-10km-1310-1.25G-C
		ZTE SM-40km-1310-1.25G-C
		ZTE SM-10km-1310-10G-C
2	Service board SFP modules	Huawei service board GPBD / GPFD / GPHF / GPBH SFP : GPON-OLT-CLASS C+
		Huawei service board GPBD / GPFD / GPHF / GPBH SFP :GPON-OLT-CLASS C++
		ZTE service board GTGO / GTGH SFP, GPON-OLT-CLASS C+
		ZTE service board GTGO / GTGH SFP, GPON-OLT-CLASS C++
3	more details, please contact with us	



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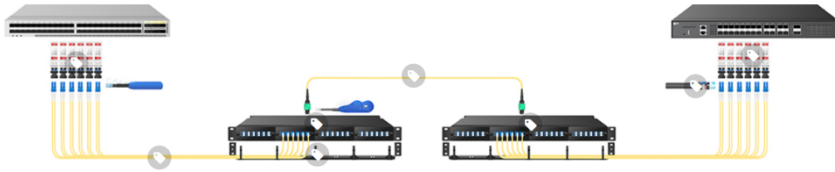
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Whatsapp: +1(954) 330-1802 / +58 414-3607853

Contact person: Maria Nunez / Alejandra Acosta

Email: mari.nunez@tvcableve.com

2.8 Category Products-Patch cord



Welcome OEM & ODM

Different kind of connectors:



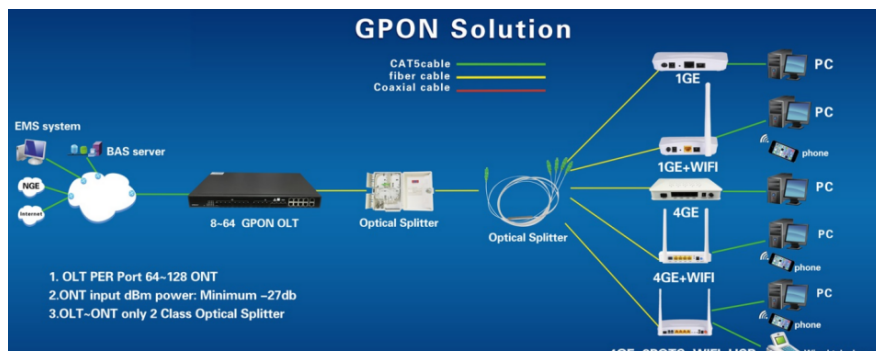
Note:

1. connector: SC/FC/ST/LC-APC/UPC...for optional
2. wire diameter: 0.9/2.0/3.0mm for optional
3. Fiber: G652D, G657A1, G657A2 for optional
4. Length : 0.5M, 1M, 1.5M, 2M...customized
5. Jacket :PVC or LSZH for optional
6. Mode: SM, MM (OM1,OM2,OM3,OM4...)

example :

SC/APC-SC/APC-G652D-3.0mm-PVC-3M-SM

2.9 Category Products-Splitter



Micro PLC splitter	
ABS box splitter	
Cassette splitter	

Note:

1. connector: SC/FC-APC/UPC...for optional
2. wire diameter: 0.9mm
3. Fiber: G657A1
4. Length : 0.5M, 1.5M, 2M...customized
5. Port config: 1x2,1x4,1x8,1x16,1x32...

example :

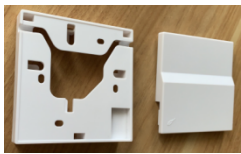
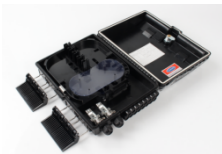
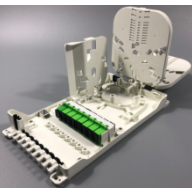
Splitter 1x16, G657A1, 0.9mm, Length 1.5M, with SC/APC connector

2.10 Category Products-Terminal box/FDB/NAP/CAJA/CTO



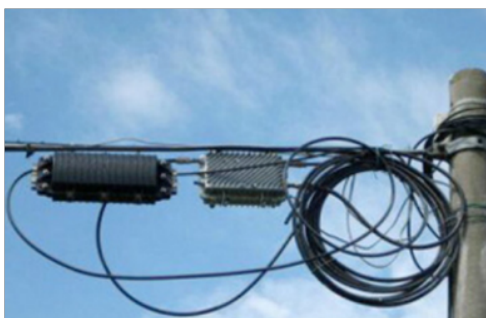
Note:

1. type: 1x2, 1x4, 1x6, 1x8, 1x12, 1x16, 1x24, 1x32
2. can be with SC/APC or SC/UPC adapter
3. can be installed with splitters

Panel picture					
model	MBH.OO1	MBH.OO2	MBH.OO3	MBH.OO4	MBH.OO5
NAP picture					
model	FQX.OO7 /8ports	FQX.OO7 /8ports	FQX.OO8 /8ports	FQX.OO8 /8ports	FQX.OO10/32ports
NAP picture					
model	FQX.OO13/16ports	FQX.OO15/16ports	FQX.OO14/16ports	FQX.OO16/16ports	FQX.OO12/16ports
NAP picture					
model	FQX.OO18 /QT-96	FQX.OO26 /DH-A2-16	FQX.OO28 /DH-A1-16	FQX.OO22 / 8ports	AFAT-002 /16ports



2.11 Category Products-Splice closure



No	Model	description	remarks	picture
1	Vertical dome type splicer closure XRT-001	Size:300mm*110mm, ABS structure: Heat Shrinkable sealing In/out Cable holes :1in 3out Max capacity (core):48cores	can use for 12C~48C	
2	Vertical dome type splicer closure XRT-002	Size:410mm*130mm, PP structure: Mechanical sealing In/out Cable holes :2in 2out Max capacity (core):96cores	can use for 12C~96C	
3	Vertical dome type splicer closure XRT-003	Size:410mm*130mm, PP structure: Mechanical sealing In/out Cable holes :3in 3out Max capacity (core):96cores	can use for 12C~96C	
4	Vertical dome type splicer closure XRT-005	Size:420mm*120mm, PP+ABS structure: heat shrinkable sealing In/out Cable holes :1in 3out Max capacity (core):96cores	can use for 12C~96C	
5	Vertical dome type splicer closure XRT-006	Size:430mm*130mm, PP+ABS structure: heat shrinkable sealing In/out Cable holes :1in 4out Max capacity (core):144cores	can use for 12C~144C	
6	Vertical dome type splicer closure XRT-012	Size:480mm*140mm, ABS structure: heat shrinkable sealing In/out Cable holes :1in 6out Max capacity (core):168cores	can use for 12C~168C	



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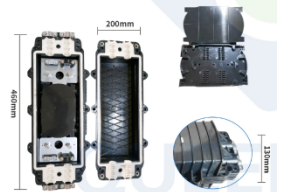
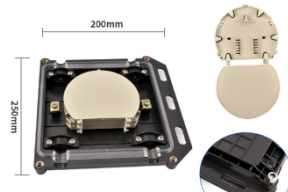
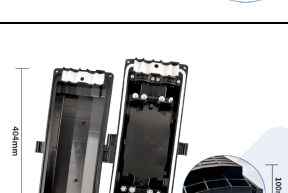
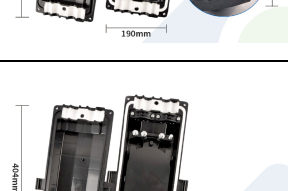
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Website: www.tvcableve.com

Whatsapp: +1(954) 330-1802 / +58 414-3607853

Contact person: Maria Nunez / Alejandra Acosta

Email: mari.nunez@tvcableve.com

7	Horizontal in-line type splicer closure XRT-001	Size:320mm*120mm*65mm, PP structure: mechanical sealing In/out Cable holes :2in 2out Max capacity (core):24cores	can use for 12C~24C	
8	Horizontal in-line type splicer closure XRT-002	Size:450mm*170mm*100mm, ABS structure: mechanical sealing In/out Cable holes :2in 2out Max capacity (core):144cores	can use for 12C~144C	
9	Horizontal in-line type splicer closure XRT-006	Size:460mm*200mm*130mm, PC alloy structure: mechanical sealing In/out Cable holes :2in 2out Max capacity (core):144cores	can use for 12C~144C	
10	Horizontal in-line type splicer closure XRT-011	Size:250mm*200mm*50mm, PP structure: mechanical sealing In/out Cable holes :2in 2out Max capacity (core):144cores	can use for 12C~144C	
11	Horizontal in-line type splicer closure XRT-013	Size:404mm*190mm*100mm, PC alloy structure: mechanical sealing In/out Cable holes :3in 3out Max capacity (core):144cores	can use for 12C~144C	
12	Horizontal in-line type splicer closure XRT-014	Size:404mm*190mm*100mm, PC alloy structure: mechanical sealing In/out Cable holes :4in 4out Max capacity (core):144cores	can use for 12C~144C	



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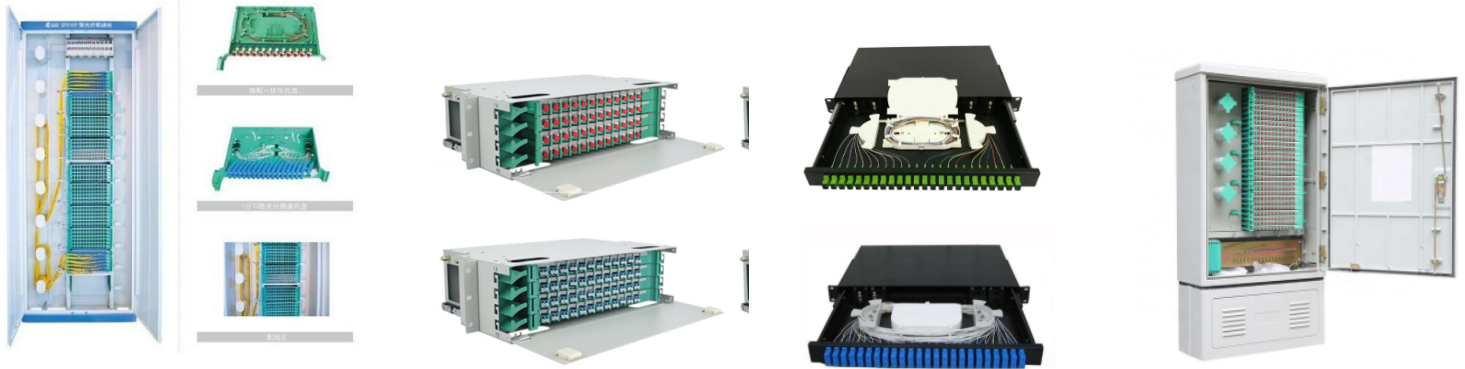
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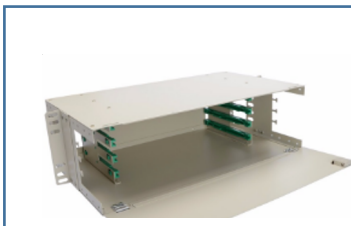
Contact person: Maria Nunez / Alejandra Acosta

Email: mari.nunez@tvcableve.com

2.12 Category Products-ODF/Cabinet/RACK



Name	Model	capacity	Size H*W*L (mm)	weight	Remarks2	Remarks2
Optical Distribution Frame (ODF)	QT-ODF-12	12cores	483*255*45 1U	5.5kgs	19", 1pcs splice tray with 12pcs pigtail	Adapter options: LC、FC、SC、ST options)
	QT-ODF-24	24cores	483*255*89 2U	6.3kgs	19", 2pcs splice trays with 24pcs pigtail	
	QT-ODF-48	48cores	483*255*133 3U	7.5kgs	19", 4pcs splice trays with 48pcs pigtail	
	QT-ODF-72	72cores	483*255*203 4U	10.5kgs	19", 6pcs splice trays with 72pcs pigtail	
	QT-ODF-96	96cores	483*255*260 5U	12.5kgs	19", 8pcs splice trays with 96pcs pigtail	
	QT-ODF-144	144cores	483*255*335 7U	15kgs	19", 12pcs splice trays with 144pcs pigtail	



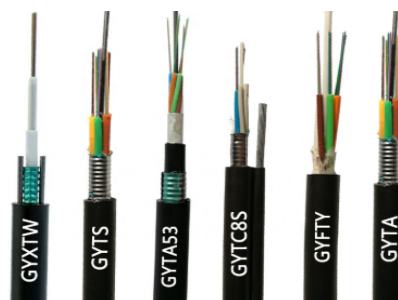
Model	Capacity /U	Height /MM	Length x Width /MM	load-bearing /kgs	Picture
WLJG.001-18U	18U	1000	600x600mm	300Kg	
			600x800mm	600Kg	
			600x1000mm	600Kg	
WLJG.002-22U	22U	1100	600x600mm	300Kg	
			600x800mm	600Kg	
			600x1000mm	600Kg	
WLJG.003-32U	32U	1600	600x600mm	300Kg	
			600x800mm	600Kg	
			600x1000mm	600Kg	
WLJG.004-37U	37U	1800	600x600mm	300Kg	
			600x800mm	600Kg	
			600x1000mm	600Kg	
WLJG.005-42U	42U	2000	600x600mm	300Kg	
			600x800mm	600Kg	
			600x1000mm	600Kg	



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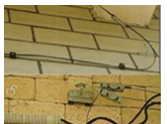
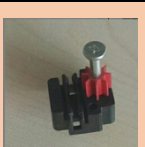
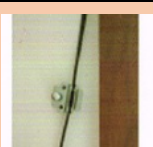
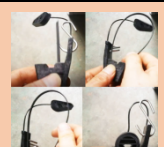
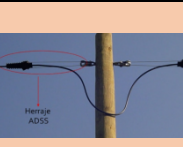
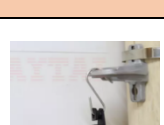
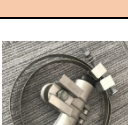
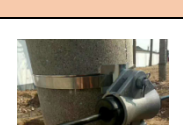
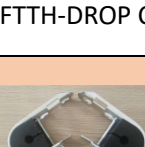
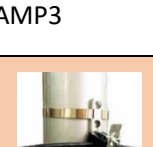
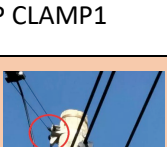
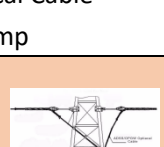
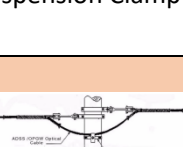
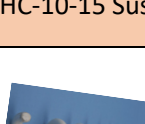
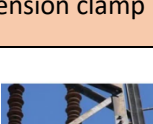
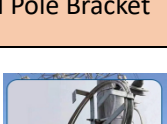
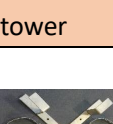
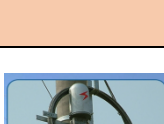
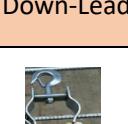
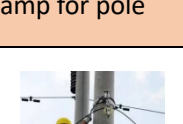
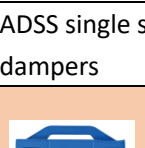
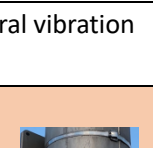
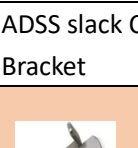
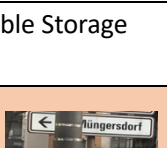
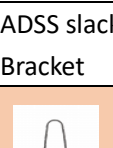
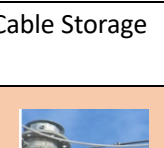
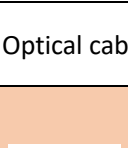
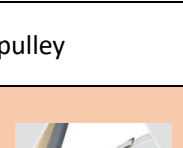
2.13 Category Products-Optic fiber cable



No.	Model	Description	remarks	pictures
1	ADSS	ADSS-PE-12cores, span100 , outdoor ,G652D, 2km/reel, single jacket,	1.span can be 50M,100M,150M,200M,250M 2.cores can be 6C,8C,12C,24C,36C,48C...288C 3. can pack as 1km,2km,3km,4km,5km per reel 4.can print client logo on the cable	
2	GYTC8S	12xG652D SM outdoor PE jacket messenger: 7x1mm steel wire Fibers: 1mini tube x 12fibers remarks: mini tubes with steel tape armored	1.cores can be 6C,8C,12C,24C,36C,48C...288C 2. can pack as 1km,2km,3km,4km,5km per reel 3.can print client logo on the cable	
3	GYXTW	12xG652D SM outdoor PE jacket Embedded steel wire Fibers: 12 fibers remarks:Uni-Tube and Armored	1.cores can be 2C,4C,6C,8C,12C 2. can pack as 1km,2km,3km,4km,5km per reel 3.can print client logo on the cable	
4	GYTS	12xG652D SM outdoor PE jacket Fibers: 1mini tube x 12fibers remarks: mini tubes with steel tape armored	1.cores can be 6C,8C,12C,24C,36C,48C...288C 2. can pack as 1km,2km,3km,4km,5km per reel 3.can print client logo on the cable	
5	GYTA53	1. 12CxG652D, double PE jacket, SM 2. 1st Armor : Aluminum tape 3. 2nd Armor: Corrugated steel tape 4. (1mini tubes*12fibers) 5. Applications :Direct buried, Duct or Underground conduits.Backbone. 6. can print client company name on it	1.cores can be 6C,8C,12C,24C,36C,48C...288C 2. can pack as 1km,2km,3km,4km,5km per reel 3.can print client logo on the cable	
6	GJYXCH	outdoor, 1cores,G657A2,LSZH, wire steel, 2km/reel 1. can pack as 1km,2km,4km, per reel 2.can print client logo on the cable	1. cores can be 1C, 2C,4C 2.jacket can be PVC, LSZH 3.messenger can be steel wire, FRP 4.fiber : G652D, G657A1,G657A2 for optional	
7	GJXH	indoor, 1cores,G657A2,LSZH, wire steel, 2km/reel 1. can pack as 1km,2km,4km, per reel 2.can print client logo on the cable	1. cores can be 1C, 2C,4C 2.jacket can be PVC, LSZH 3.messenger can be steel wire, FRP 4.fiber : G652D, G657A1,G657A2 for optional	
8	Other types of optic fiber cable can be customized, please contact us for more details .			

2.14 Category Products-Cable Metal disassembled parts

FTTH drop cable/ADSS cable install hardware parts

							
DJ-1607-B		DJ-1608		DJ-1609		DJ-1610	
							
DJ-1611		DJ-1612		DJ-1613		DJ-1614	
							
DJ-1600D		Pole Hardware Galvanized Steel Band Hook for ADSS		SOPORTE-DROP.		CLAMP-DROP CLAMP2	
							
FTTH-DROP CLAMP3		WEDGE-DROP CLAMP1		S Type Optical Cable Tension Clamp		Aluminium Suspension Clamp For ADSS	
							
HC-10-15 Suspension clamp		UPB Universal Pole Bracket		Down-Lead Clamp for tower		Down-Lead Clamp for pole	
							
ADSS single spiral vibration dampers		ADSS slack Cable Storage Bracket		ADSS slack Cable Storage Bracket		Optical cable pulley	
							
FLEJE-1/2",3/4",1/4",1/1"		Hebilla-1/2",3/4",1/4",1/1"		Preformed full tension guy grip		Stainless Steel locking ties	



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Dirección: Carretera a Perijá, Km 3 ½ con Avenida Unión, Nro. 8-86, Maracaibo, Edo. Zulia, Venezuela

Website: www.tvcableve.com

Whatsapp: +1(954) 330-1802 / +58 414-3607853

Contact person: Maria Nunez / Alejandra Acosta

Email: mari.nunez@tvcableve.com

2.15 Category Products-Fusion splicer

AI-7C	AI-8C	AI-7V	AI-9	Handheld EX39	Trunk Optical Fiber FX39

No.	model	description
1	AI-7C six motors	1. 8 seconds fast splicing 2.18 seconds fast heating 3. comes with 7800mAh large capacity battery 4. continuous splicing and heating time about 200times
2	AI-8C six motors	1. 6 seconds fast splicing 2.15 seconds fast heating 3. comes with 7800mAh large capacity battery 4. continuous splicing and heating time about 200times
3	AI-7V six motors	1. 6 seconds fast splicing 2.15 seconds fast heating 3. comes with 7800mAh large capacity battery 4. continuous splicing and heating time about 240times
4	AI-9 six motors	1. 5 seconds fast splicing 2.15 seconds fast heating 3. comes with 7800mAh large capacity battery 4. continuous splicing and heating time about 200times
5	EX39 four motors	1. 8 seconds fast splicing 2.18 seconds fast heating 3. comes with 3400mAh large capacity battery 4. Electrode Life : 5000 arcs (replaceable)
6	FX39 six motors	1. 6 seconds fast splicing 2.16 seconds fast heating 3. comes with 7800mAh large capacity battery 4. Electrode Life : 5000 arcs (replaceable)
7	Other brands, other models, please contact with us at your anytime	

2.16 Category Products-OTDR



No.	Model	desription
1	OTDR AOR500-S	Dynamic Range:(24dB/22dB) Wavelength:1310nm/1550nm Max distance :60KM English Version
2	OTDR AOR500-A	Dynamic Range:(28dB/26dB) Wavelength:1310nm/1550nm Max distance :80KM English Version
3	OTDR AOR500-B	Dynamic Range:(32dB/30dB) Wavelength:1310nm/1550nm Max distance :100KM English Version
4	OTDR AOR500-C	Dynamic Range:(36dB/34dB) Wavelength:1310nm/1550nm Max distance :120KM English Version
5	OTDR AOR500-PB	Dynamic Range:(34dB/36dB/34dB) Wavelength:1550nm /1310nm/1625nm Max distance :120KM English Version
6	OTDR TM290T	1.OTDR: 1310/1550nm , 22/20dB, 0-60km 2.OPM : -70~-10dbm or -50~-26dbm 3.VFL : >=10mw 4.OLS : 1310/1550nm ,>-5dBm
7	OTDR NK3200D	Dynamic Range:(24dB/22dB) Wavelength:1310nm/1550nm Max distance :60KM English Version
8	OTDR NK4000D	Dynamic Range:(26dB/24dB) Wavelength:1310/1550±20nm Max distance :60KM English Version



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 Contact person: Maria Nunez / Alejandra Acosta
 Email: mari.nunez@tvcableve.com

2.17 Category Products-Optic tools

model	picture	Model	picture	model	picture
FTTH tool kit#1 fiber optic FTTH tool kit standard package		Miller stripper		Wire stripping pliers	
FTTH tool kit#2 fiber optic FTTH tool kit standard package		Optical Cable Construction Toolbox #2		Optical Cable Construction Toolbox #1	
Fiber optical power meter OPM-9 wavelength:850-1625nm, Test accuracy: +/-0.2dB, Test Range : -70~+10dB		SI-01 Longitudinal fiber optical coaxial Cable jacket Stripper 208*88*36 mm Cables diameter of 10~25mm can be stripped		optic fiber cleaver cutter FC-6S	
Fiber Tool Heavy Duty Tube Cutter STANLEY 93-021 (range 3-31mm)		Transverse Longitudinal cable stripper cutter It can do one-off strip for the fiber cable Ø8~Ø30mm.		HW-315 Rotary cable stripper slits and strips round cable from 0.18" up to 1.0" in daimeter	
Optical Connector Cassette Cleaning Tool KCC-550 * for all type connectors includes FC,SC,ST,LC and MU *		Pentype Fiber Connector Cleaner KOC-250 One-Click Cleaner for SC, ST, FC 2.5mm ferrules		Pentype Fiber Connector Cleaner KOC-125 One-Click Cleaner for LC, MU 1.25mm ferrules	
Steel tie fasten tools use for steel ties width under 8mm, thickness under 0.3mm		Live Fiber Identifier (three options) 1.AFI 400 , without VFL 2. AFI420S, with Visual Fault Locator 1mW 3. AFI420L, with Visual Fault Locator 10mW		KIM. AIRLAID-PAPER KIMWIPES 11X21CM 280-PANOS ANTIESTATICOS P/FIBRA OPTICA LINTGUARD LIMP	
KCS. kevlar scissor RUBICON Tijera Corta Kevlar Acero Inoxidable 140mm		CT-274. PEEL CORTADOR DE TUBO 3-28MM 1/8 - 1 1/8 COBRE ACERO ALUMINIO		VFL 10mW 650nm Detector Visual Fallas Fibra 8-10km req-pilas/2-AA (optional :1mW/10mW/20mW/30m W)	
three layer folding tool box 17" Bottom Size:395*170mm, middle part:420*200mm, height : 175mm		three layer folding tool box 21" Bottom Size:450*225mm, middle part:485*255mm, height : 215mm		OTDR launch cable Length customized:150M 300M 500M 1000M 2000M extended line connector options:MU, E2000SC /FC/LC/ST	
Miller MSAT-5 Fiber Optic Drop Cable Slitter		Fiberglass Duct Rodder DR70100 7mm 100m DR90150 9mm 150m DR110200 11mm 200m/300m		LAUCHA-50E STRINGING-GUN-50 50MT ELECTRICA CINTA DE ACERO PASACABLES LAUCHA ELECTRICA ALAMBRE	
TIE HAND-HELD-TIE-UP Hand-held Cable Fast Tie-up Tool		Stainless Steel Strapping Tools		400X Home Handheld Fiber Optical Inspection CL-400 225mm*32mm Fiber Microscope with universal "slip-grip" adapter	



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Website: www.tvcableve.com

Whatsapp: +1(954) 330-1802 / +58 414-3607853

Contact person: Maria Nunez / Alejandra Acosta

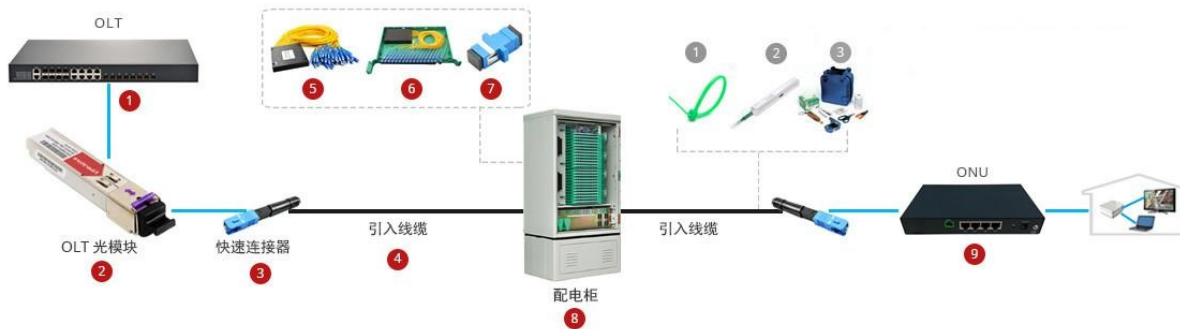
Email: mari.nunez@tvcableve.com

2.18 Category Products-STB box/TV box

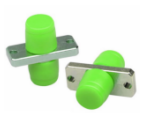
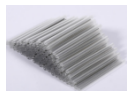
Model	OS Version	CPU	WIFI	RAM	ROM	picture
X98S500	Android 11	S905Y4,4K Quad Core ARM Cortex A35	2.4G/5G WIFI IEEE 802.11 a/b/g/n/ac BT4.X+	2GB	16GB	
				4GB	32GB	
X96Q Pro	Android 10.0	Allwinner H313 Quad Core ARM Cortex A53	SSV6256P: 2.4G& 5G IEEE 802.11 a/b/g/n 100M LAN	1GB	8GB	
				2GB	16GB	
X98Q	Android 11	S905W2,4K Quad Core ARM Cortex A35	2.4G/5G WIFI IEEE 802.11 a/b/g/n/ac 100M LAN	1GB	8GB	
				2GB	16GB	
X96S400	Android 10.0	Allwinner H313 Quad Core ARM Cortex A53	wifi 802.11 b/g/n 2.4G.	1GB	8GB	
				2GB	16GB	
X96Mate	Android 10.0	Allwinner H616 Quad Core ARM Cortex A53	wifi 2.4G 5.8G BT4.2 802.11.AC 100M LAN	4GB	32GB	
				4GB	64GB	
X96QMAX	Android 10.0	Allwinner H616 Quad Core ARM Cortex A53	wifi 2.4G 5.8G BT4.2 802.11.AC 2T2R MIMO 1000M LAN	4GB	32GB	
				4GB	64GB	
X96Q	Android 10.0	Allwinner H313 Quad Core ARM Cortex A53	wifi IEEE 802.11 b/g/n 2.4G 100M LAN	1GB	8GB	
				2GB	16GB	
X96 Air	Android 9.0	Amlogic S905X3 64-bit quad core ARM® Cortex™ A55	wifi IEEE 802.11 b/g/n 2.4G 100M LAN	2GB	16GB	
			wifi 2.4G 5.8G BT4.2 802.11.AC 2T2R MIMO 1000M LAN	4GB	32GB	
X96MAX+	Android 9.0	Amlogic S905X3 64-bit quad core ARM® Cortex™ A55	wifi IEEE 802.11 b/g/n 2.4G 100M LAN	2GB	16GB	
			wifi 2.4G 5.8G BT4.2 802.11.AC 2T2R MIMO 1000M LAN	4GB	32GB	
X96S	Android 9.0	Amlogic S905Y2 Quad Core ARM Cortex A53	wifi 2.4G WiFi LPDDR 4	2GB	16GB	
			wifi 2.4G 5.8G BT4.0 AP6255 LPDDR	4GB	32GB	
X98mini	Android 11	S905W2,4K Quad Core ARM Cortex A35	2.4G/5G WIFI BT5.0	2GB	16GB	
			IEEE 802.11 a/b/g/n/ac 100M LAN	4GB	32GB	
hako mini Y2	Android 9.0	Amlogic S905Y2 Quad Core ARM A53 @1.5GHz	IEEE 802.11 b/g/n/ac, 2.4G/5G dual wifi 10/100/1000Mbps Google certified	2GB	8GB	
hako mini Y4	Android™ 11	Amlogic S905Y4 ARM Quad 64-bit Cortex-A35	2 x 2 MINO Wi-Fi 2.4GHz/5GHz 802.11a/b/g/n/ac *RJ45 Interface 10M/100M adaptive Google certified	2GB	8GB	
				2GB	16GB	
				4GB	32GB	



2.19 Category Products-Optical accessories



FTTH optic accessories

Fast connector SC/APC	Fast connector SC/UPC	Fast connector SC/APC high quality	Fast connector SC/UPC high quality
			
Optic adapter SC/APC	Optic adapter SC/APC	Optic adapter SC MM	Optic adapter LC/APC
			
Optic adapter LC OM3	Optic adapter LC SM	Optic adapter FC SM	Optic adapter FC SM
			
Fast connector SC/UPC	Fast connector SC/APC	Fusion Splice-On Fiber Fast Connector SC/UPC	Fusion Splice-On Fiber Fast Connector SC/APC
			
optical splice protection tube	Self-locking nylon tie	RJ 45 connector	optical fiber fusion box
			
Online Variable Optical Attenuator LC/UPC-SM-SX-online Attenuator 0-60dB	Online Variable Optical Attenuator SC/UPC-SM-SX-online Attenuator 0-60dB	Online Variable Optical Attenuator FC/UPC-SM-SX-online Attenuator 0-60dB	
			





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Website: www.tvcableve.com

Whatsapp: +1(954) 330-1802 / +58 414-3607853

Contact person: Maria Nunez / Alejandra Acosta

Email: mari.nunez@tvcableve.com

2.20 Category Products-Digital Headend Product(Encoder Modulator)

No.	desc
1	3542A 4  4 HDMI to 4 ATSC Encoder Modulator - MPEG2 HD/MPEG4 HD video encoding - Up to 1920*1080@50/60P supported (MPEG4 HD) - Up to 1920*1080@50/60P supported (MPEG2 HD) 4* HDMI in, 1* ASI in - Simultaneously encoding each channel more than 10Mbps 4* ATSC RF out (4 carriers combined output) - Support IP (MPTS) output - Excellent modulation quality MER>42dB - RF Frequency range 30MHz~950MHz - LCD display, Remote control and firmware - Web NMS management; Updates via web - Lowest cost per channel --- breakthrough price DX3224H  Multi-Channel Encoder - Video Encoding: HEVC/H.265 & MPEG4 AVC/H.264 - Audio Encoding: MPEG-1 Layer 2, LC AAC, HE AAC V2, AC3 Passthrough - Ultra Low Bit Rate: Save 75% Bandwidth - Enhance Picture Quality: Advanced Compressing Algorithm - Advanced Pretreatment: De Interlacing, Noise Reduction, Sharpening - OSD (Logo, QR Code) Insertion-Optional as per order
2	DSM2500C  32 in 1 IP to Analog Modulator 1U chassis, high density to save shipping cost - Support OSD (Logo and Caption) insertion for each channel, easy operate - Support CC/Subtitle/Teletext - Support BISS De-scrambling - Support program info modify, multiple audio select 2 GE ports (max 64 IP input over MPTS/SPTS), Max 840Mbps for each GE inps - Support HEVC/H.265, H.264/AVC, MPEG-2 TS Decoding - Processing of up to 32 IP multicast groups of a Gigabit Ethernet MPEG TS into up to 32 standard PAL or NTSC or SECAM TV programs 32 non-adjacent or adjacent carriers output within 400MHz - Support Web-based Network management DX3504  IP Multiplexer - ASI in/out: max 4 ASI input/output thru 4 bi-direction ASI ports (ASI direction can be defined as input or output manually) - IP input: 128 IP input, 4 IP (MPTS) output thru 3 bi-direction Data ports - IP input: 512 IP in over UDP/RTP (256x2 IP in thru GE1 and GE2, 1 IP in thru Data port) - IP output: 512 IP (MPTS) out over UDP/RTP (4 MPTS out thru GE1 and GE2, 1 MPTS out thru Data port) - Support all input programs output bypass - Support accurate PCR adjusting, PID filtering, re-mapping and PSI/SI rebuilding and editing - Huge buffer memory for saving the overflowing code stream - Web-based NMS management
3	DX3214B  Multi-Channel Encoder - Modular design, 1U chassis support up to 3 modules 4/8/12x CVBS or SDI video inputs with MPEG-2 and MPEG4 AVC/H.264 Video encoding - Support PAL and NTSC SD video formats (Only for CVBS interface) - Support MPEG1 Layer 2, LC AAC, HE AAC and support audio gain adjustment - Support IP output over UDP and RTP/RTSP - Support Null PKT Filter - Support Logo, Caption, QR Code Insertion(Language Supported: CH, English, etc, for more languages please consult us...) - Control via web management, and easy updates via web DX3514  Multiplexer Scrambler User Manual - ASI in/out: max 4 ASI input/output thru 4 bi-direction ASI ports (ASI direction can be defined as input or output manually) - IP input: 128 IP input, 4 IP (MPTS) output thru 3 bi-direction Data ports - Support scramble with up to 4 simulcrypt CAs - Up to 512 PIDs remapping per output channel - Support accurate PCR adjusting, PID filtering, re-mapping and PSI/SI rebuilding and editing - Huge buffer memory for saving the overflowing code stream - Alarming function - Web-based NMS management
4	DX3214B User Manual  Multi-Channel Encoder User's Manual - Modular design, 1U chassis support up to 3 modules 4/8/12x CVBS video inputs with MPEG-2 and MPEG4 AVC/H.264 Video encoding - Support PAL and NTSC SD video formats - Support MPEG1 Layer 2, LC AAC, HE AAC V2 and support audio gain adjustment - Support IP output over UDP and RTP - Support Null PKT Filter - Real-time effective encoding output bit rate monitoring - Support Logo, Caption, QR Code Insertion - Control via web management, and easy updates via web NDS2406  DVB-T/T2 Modulator User Manual - Fully complying with EN302 755 and EN300 744 standard 4 ASI input ports 1 IP input over UDP protocol 10MHz input/loop out, 1PPS input/loop out - DVB-T/T2 RF out in one device - Supports single PLP - Support MISO and SISO - Support MFM net mode - Supports non-linear and linear digital pre-distortion (DPD) - Constant temperature crystal oscillator, as high as 0.1ppm stability - Support PID bypass and passthrough - Keyboard operation and LCD display - Web Network management system
5	NDS3107G  Tuner Multiplexer - Support 16 FTA DVB-S/S2/SX2 (DVB-C, DVB-T/T2, ISDB-T, ATSC optional) input, 2 ASI input - Support BSS descrambling, and each channel bit rate cannot exceed 80Mbps - Support DiEg function 4 IP output (MPTS) over UDP, RTP/RTSP protocol 2 GE mirrored output, up to 850Mbps - Support PID filtering, re-mapping - Support PSI/SI rebuilding and editing - Support "Null PKT Filter" function - Support Web operation NDS3332  32 in 1 IP QAM Modulator 3 GE ports (max 1024 IP in): Data1 & Data2 bi-directional ports, max 512 IP in, 32 IP out Data port (located on front panel), max 128 IP in - Max 840Mbps for each GE input - Supports accurate PCR adjusting/CA filtering, PID remapping and PSI/SI editing - Supports up to 256 PIDs remapping per channel - Support 32 IP output through Data1 & Data2 over UDP/RTP/RTSP 32 non-adjacent QAM carriers output, compliant to DVB-C (EN 300 429) and ITU-T J.83 A/B - Supports RS (204,188) encoding - Support Web-based Network management
6	NDS3228S  Multi-Channel Encoder 8 HDMI inputs with 8 SPTS and 1 MPTS output (each encoder module), max 24 HDMI inputs - MPEG4 AVC/H.264 video encoding format - MPEG1 Layer II, LC AAC, HE AAC audio encoding format and AC3 Pass Through, and audio gain adjustment - IP output over UDP and RTP/RTSP protocol - Support QR code, LOGO, caption insertion (Language Supported: CH, English, etc, for more languages please consult us...) - Support "Null PKT Filter" function - Control via web management, and easy updates via web NDS3332-64 IP  64 IP QAM Modulator 2*2 GE input, Data1 and Data2 (SFP interface optional) - Supports up to 1024*2 channels TS over UDP/RTP, unicast and multicast, IGMP v2/v3 - Max 840Mbps for each GE input - Supports accurate PCR adjusting - Supports CA filtering, PID remapping and PSI/SI editing - Support DVB general scrambling system(E-TR205), simulcrypt standards - ETSI 101 197 and ETSI 103 197 - Support 32*2 multiplexed or scrambled TS over UDP/RTP/RTSP output 32 non-adjacent QAM carriers output, compliant to DVB-C (EN 300 429) and ITU-T J.83 A/B - Supports RS(204,188) encoding - Support Web-based Network management
7	NDS3306I  6 in 1 ISDB-T Modulator User Manual 3 GE ports (max 192 IP in): Data1 & Data2 bi-directional ports, max 192 IP in, 6 IP out Data port (located on front panel), max 128 IP in - Max 840Mbps for each GE input - Supports accurate PCR adjusting - Supports CA filtering, PID remapping and PSI/SI editing - Supports up to 180 PIDs remapping per channel - Support 6 IP output through Data1 & Data2 over UDP/RTP/RTSP 6 non-adjacent carriers output, compliant to ISDB-Tb (ARIB STD-B31) - Support Web-based Network management NDS3348D  48 in 1 IP QAM Modulator - Max 1536 IP input thru 3 GE ports (SFP interface optional) - Up to 512 PIDs remapping per output channel - Supports 6 simulcrypt CAs and 32 scrambling channels 48 IP out over UDP/RTP/RTSP: IP 1-24 out thru Data1, IP 25-48 out thru Data2 48 non-adjacent QAM carriers output: carrier 1-24 out thru RF1, carrier 25-48 out thru RF2 - Supports RS (204,188) encoding - Supports accurate PCR adjusting/CA filtering, PID remapping and PSI/SI editing - Web-based Network management



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Whatsapp: +1(954) 330-1802 / +58 414-3607853

Contact person: Maria Nunez / Alejandra Acosta

Email: mari.nunez@tvcableve.com

2.20 Category Products- UPS, miniUPS

Code	model	Input/Output power	Capacity	Package	picture
UPS.001	UPS502A	5V/2A	4000mAh (2*2000mah)	44*24*24CM 44pcs/ctn, 8.8KG;	
UPS.002	UPS502B	5V/2A	12000mah (6*2000mah)	39*27.5*29.5CM 40pcs/ctn, 16.6KG	
UPS.003	UPS901A	9V1A	4000mAh (2*2000mah)	44*24*24CM 44pcs/ctn, 8.9KG	
UPS.004	UPS1201A	12V/1A	4000mAh (2*2000mah)	44*24*24CM 44pcs/ctn, 8.9KG	
UPS.005	UPS1202A	12V/2A	6000mAh (3*2000mah)	44*24*24CM 44pcs/ctn, 10.97KG	
UPS.006	UPS1202B	12V/2A	12000mah (6*2000mah)	39*27.5*29.5CM 40pcs/ctn, 16.7KG	
UPS.007	UPS1203A	12V/3A	12000mah (6*2000mah) 44.4WH	44*24*24CM 24pcs/ctn 10.75KG	
UPS.008	UPS1203A	12V/3A	15600mAh (6*2600mah) 57.72WH	44*24*24CM 24pcs/ctn 10.92KG	
UPS.009	P18/8000	100~240V/1A	8000mAh (4*2000mah) 29.6WH	43.5*37.5*34CM 40pcs/ctn 20.75-21KG	
UPS.010	P18/8800	100~240V/1A	8800mAh (4*2200mah) 32.56WH	43.5*37.5*34CM 40pcs/ctn 20.75-21KG	
UPS.011	P18/12000	100~240V/1A	12000mah (6*2000mah) 44.4WH	38.5*23*35CM 20pcs/ctn 13.35-13.55KG	
UPS.012	P18/15600	100~240V/1A	15600mah (6*2600mah) 57.72WH	38.5*23*35CM 20pcs/ctn 13.75-14KG	