PBN CP-HFC-45-1000

CATV OPTICAL RECEIVER

The CP-HFC product line provides Cable MSOs as well as FTTx operators a low-cost option to deploy CATV fiber to the home. Its deployment scenarios vary from single dwelling units (SDUs) to multi-dwelling units (MDUs) that require a cost-efficient fiber-to-coax conversion at the consumer's location.

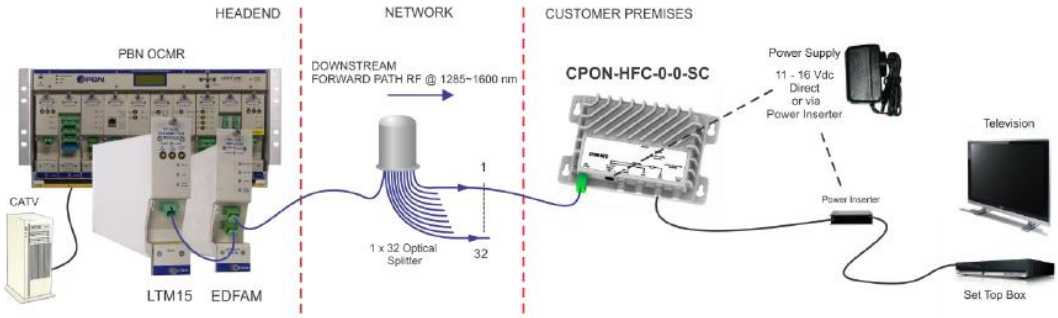
- Full spectrum CATV receiver from 45-1000 MHz
- Very low operating cost with less than two W power consumption
- Compact and sturdy design to fit indoor as well as outdoor deployments
- Ideal for fiber to the consumer deployments
- Status LED for easy troubleshooting:
  - Green: Power supply connected, optical input power > -8 dBm
  - Red: Power supply connected, optical input power < -8 dBm

SPECIFICATIONS

OPTICAL PERFORMANCE	
Optical Input Range	-8 dBm to 0 dBm
Optical Reflection	≥ 40 dB
Optical Wavelength	1100 nm to 1650 nm
Maximum optical Input Power	+3 dBm
Optical Connector	SC/APC
RF PERFORMANCE	
Frequency Range	45 MHz to 1000 MHz
RF Return Loss	≥ 14 dB
RF Flatness	± 1.0 dB
RF Output Level (-5 dBm optical Input)	20 dBmV
RF Connector	SCTE F-type
LINK PERFORMANCE	
CTB	≥ 65 dB
CSO	≥ 60 dB
CNR	≥ 46 dB
GENERAL	
AC~DC switching Power Supply	Input: 100~240 Vac, 50~60 Hz 0.2 A Output: +9 Vdc (± 0.5 V) 0.8 A
Power Consumption	< 2 W
Operating Temperature	-20 oC to +55 oC
Dimensions (WxDxH)	60 x 30 x 20 mm
Weight	0.1 kg

CPON-HFC-0-0-SC

Forward Receiver Only



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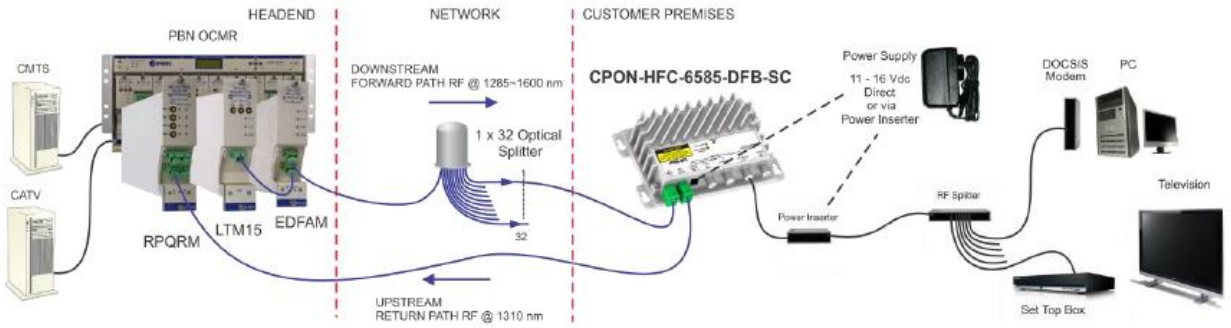
CPON-HFC-6585-DFB-SC

Receiver with 2mW Return Path Transmitter @ 1310 nm, 65/85 MHz Split Diplexer



FORWARD PATH OPTICAL		RETURN PATH RF	
Wavelength	1285-1600 nm	RF Bandwidth:	5-45 MHz or 5-65 MHz
Input Level	-8-0 dBm	RF Flatness:	± 0.75 dB
Recommended Input Level	> -5 dBm	RF Input Return Loss:	> 14 dB
Connector	SC/APC	RF Input Test Point:	-20 dB
Return Loss	> 45 dB	**GENERAL SPECIFICATIONS**	
Input Level Test Point	1 V / mW	External Power Supply	11-16 Vdc
FORWARD PATH RF		CPON-HFC-0-0-SC	400 mA @ 12 Vdc
RF Output Level	20 dBmV	CPON-HFC-[Y]-DFB-SC	450 mA @ 12 Vdc
RF Bandwidth	54-1000 MHz or 85-1000 MHz	Optical Connectors	SC/APC
RF Flatness	± 1 dB	RF Connectors:	SCTE–F-type
RF Output Return Loss	> 14 dB	Power Connector	2.1 mm concentric–positive on Centre Pin
RF Output Test Point	-20 dB	Universal Mains Plug Pack:	95-265 Vac 50-60 Hz with AU/EU/UK/US Mains Pins
RETURN PATH OPTICAL		Operating Temperature:	-10 - +60 °C ambient
Wavelength	1310 nm	Dimensions (H x W x D):	115 x 163 x 38 mm
Output Level	2 mW (3 dBm)	**LINK PERFORMANCE**	
Connectors	SC/APC	CNR	> 46 dB
Return Loss	>45 dB	CSO	> 60 dB
Output Power Test Point	1 V/ mW	CTB	> 65 dB

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