



CATV

Model 2802PRO

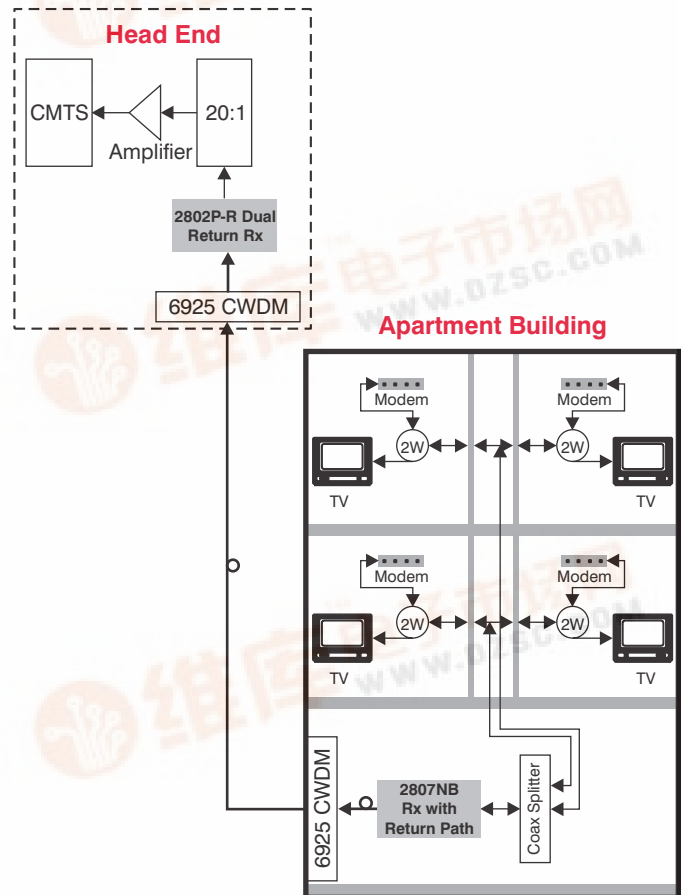
CATV Transmitter

- Transmits up to 10 CATV channels over one single-mode fiber.
- Supports transmission of sub-band, low-band, FM, mid-band, and high-band channels, adding flexibility to the system.
- Built-in RF Input Level indicator aids in commissioning and troubleshooting the link.
- Return path receiver option is available for back-haul applications.
- Compatible with standard television industry voltages and impedances.
- Ideal for small corporate TV video distribution, campus media retrieval, teleconferencing, and much more.



Model 2802PRO Transmitter

The Force, Incorporated CATV Model 2802PRO 10 Channel CATV VSB/AM video link offers a state-of-the-art solution for high-quality CATV transmission. The Model 2802PRO offers exceptional analog bandwidth from 5 to 400 MHz allowing transmission of all sub-band, low-band, FM, mid-band, and high-band channels. This feature allows the system to deliver custom designed video services. In conjunction with a VCR, camcorder, or cable television feed, the Model 2802PRO can transmit TV channels and their sound carriers, over a distance of 10 km or more at 1310 nm over one single-mode fiber. A return path receiver is available for back-haul applications. The unit utilizes inputs from standard CATV VSB/AM modulators, processors, and other ancillary equipment, making the Model 2802PRO link an excellent plug-and-play system. LED indicators and built-in RF and optical power meters allow for quick assessment of the link's status.

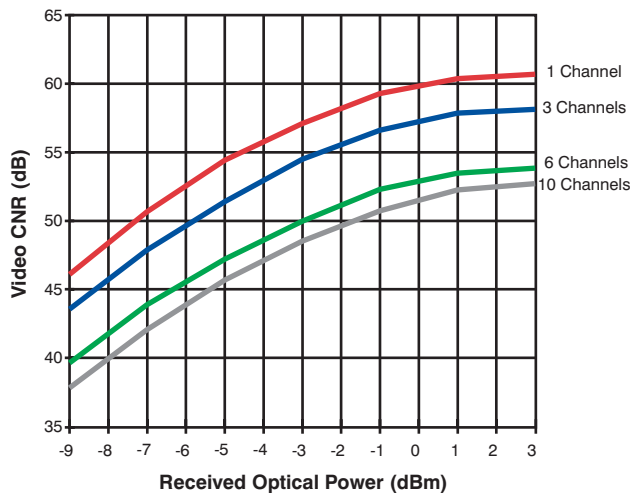


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Specifications and Ordering Information

Optical and RF Characteristics

	Min	Typ	Max	Units
Tx Optical Output Power	+2.0	+3.0	+4.0	dBm
Rx Optical Input Power	-9.0		+4.0	dBm
Optical Loss Range	0		12	dB
Operating Wavelength	1290	1310	1330	nm
Lower Bandwidth			5	MHz
Upper Bandwidth	350	400		MHz
Impedance		75		Ohms
Carrier-to-Noise Ratio	See Graph Below			
End-to-End Link Gain				
0 dB Optical Loss		+24		dB
10 dB Optical Loss		+4		dB
Composite Triple Beat		-63	-57	dB
Composite Second Order		-70	-65	dB
Flatness			±1.0	dB



Electrical Characteristics

	Min	Typ	Max	Units
Power Supply Voltage		+9		VDC
Tx Current Draw		205	260	mA
Rx Current Draw		95	150	mA

Physical Characteristics

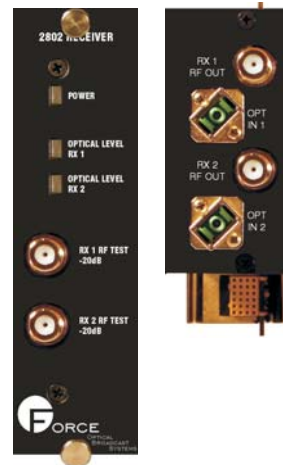
	Min	Typ	Max	Units
Weight (Stand-alone Tx/Rx)		6		oz.
		170		g
Weight (3RU Rx)		8		oz.
		227		g
Dimensions (Stand-alone Tx/Rx)	5.75 x 2.95 x 1.143			in.
	146 x 75 x 29			mm
Dimensions (3RU Rx)	5.06 x 1.39 x 12.00			in.
	129 x 35 x 305			mm

Environmental Characteristics

	Min	Typ	Max	Units
Operating Temp. Range	+10		+40	°C
Storage Temp. Range	-20		+70	°C
Relative Humidity	0		95	%



Model 2802PRO Stand-alone Receiver and Transmitter



Model 2802PRO Dual Return Receiver Front and Rear Panels

SM 10 Channel Link P/N

2802PRO Tx and Rx Options	FC/APC Conn.	SC/APC Conn.
Std.-alone Tx, SM, 1310 nm	2802P-T-1310-FA	2802P-T-1310-SA
Std.-alone Rx, SM, 1310/1550 nm	2802P-R-FA	2802P-R-SA
3RU Dual Return Rx, SM, 1310/1550 nm	2802P-R-DUAL-FA	2802P-R-DUAL-SA

Rack and P.S. P/N

Accessory Options	Rack Accessories	Power Supplies
Stand-alone P.S. +9 Volts DC		PS095-1
3RU 19" Rack Chassis	3000CB-NN	
3RU P.S., Universal AC 3RU P.S., -48 Volts DC		3000UC-NN 3000UE-NN

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