

# microwave photonic systems

MPS-800TX

## Forward Path Optical Transmitter (used with MPS-850RX)



**Designed to provide transmission of Telephony, High Speed Internet and analog signals in the 40 MHz – 860 MHz range over broadband fiber optic networks**

The OFW-800TX Forward Path Optical Transmitter is designed to provide transmission of Telephony, High Speed Internet and analog signals in the 40 MHz – 860 MHz range over broadband fiber optic networks from a single head-end point or hub to multiple distribution nodes within the Hybrid Fiber/Coax (HFC) network. The OFW-800TX Forward Path Optical Transmitter is offered in a standard 19 inch, 1U rack mountable unit or in configurations such that it may be placed in a Head-End cabinet, a DTX Chassis or an Outside Plant optical node. The robust system design has a high MTBF with an internal system architecture allowing for components to be easily expanded in order to meet the changing needs of the HFC network. The OFW-800TX Forward Path Optical Transmitter can operate at industry standard wavelengths required for operation and successful integration to all commercial CWDM or DWDM systems. The OFW-800TX Forward Path Optical Transmitter can be integrated with other MPS products to provide flexible system configurations and expansion. The OFW-800TX Forward Path Optical Transmitter, when coupled with the OFW-800RX Forward Path Optical Receiver, the MPS-2300 Optical Splitter and the MPS-2700 Wavelength Division Multiplexer (WDM) provides a highly reliable forward path link in HFC networks. In addition, both the OFW-800TX Forward Path Optical Transmitter and OFW-800RX Return Path Optical Transmitter can support the simultaneous transmission of network management information over an auxiliary data channel facilitating system diagnostic reporting, network monitoring and a means of seamless redundancy switching. The OFW-800TX and OFW-800RX are offered in optional 1 GHz configuration to allow for expanded data capability necessitated by industry progression to providing multi services.

**Information:** Call us toll-free at 888-868-8967 or email [info@b2bphotonics.com](mailto:info@b2bphotonics.com)

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### Applications

- CATV Return Path Link
- Interfacility Link Remoting
- Frequency Reference Distribution
- SATCOM Uplink & Downlink Remoting
- IF Distribution, 70 MHz/140 MHz
- HF & VHF Signal Transmission

### Features

- Compatible with FC and SC Connectors
- Housed in Low Profile 19" Rack Mountable Drawer
- Accommodates up to Five Independent Receivers per 1U Enclosure
- Low Noise RF Front-end (opt)
- RF Test Point: -20 dB
- Auxiliary Data Channel per Receiver (opt)
- 1 Year Full, 2 Year Limited Warranty

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### Specifications

#### Optical/General

Operating Wavelength:	1310.0 nm $\pm$ 20 nm
Output Power:	6 mW (min)
Bandwidth:	40 MHz to 860 MHz
Flatness:	$\pm$ 1.0 dB
Input Level:	35.0 dBmV (max)
Return Loss:	-14.0 dB (min)
RF Impedance:	75 ohm
C/N:	> 52 dB (Ch BW = 5 MHz)
CSO:	> 60 dB (OMI = 3.7%, 80 Ch Loading)
CTB:	> 65 dB (OMI = 3.7%, 80 Ch Loading)
Alarms & LEDS:	Optical Power Failure, Power Supply
Monitors:	Optical Power
Operating Temperature:	0.0° C to 60.0° C
Power Consumption:	50 W
Weight:	15 lbs. (max)
Dimensions:	19" (w) x 12" (l) x 1.75" (h)
Line Power:	120 VAC, 60 Hz

