



CPE26TR-001 CPE TRANSCEIVER

- **Remote CPE Transceiver for Wireless Internet**
- **Compact Outdoor Package**
- **QPSK, QAM or COFDM Capability**
- **Single-Cable connection to the Indoor Modem**
- **DOCSIS Interface**

PRODUCT APPLICATION:

The CPE26TR-001 (Customer Premises Equipment) Transceiver is a full duplex (transmit and receive) outdoor RF unit designed for point-to-multipoint wireless systems in the 26 GHz frequency band using multiple carriers in the FDD (Frequency Domain Duplexing) regime.

The transceiver features a solid state modular design consisting of three modules (block downconverter, transmitter and diplexer).

The receiver module has an input frequency in the 26 GHz range and output IF frequencies compatible with DOCSIS (VHF and UHF) standards.

The transmitter module input frequency range is in the 45 - 65 MHz band and the output is also within the 26 GHz band.

A single cable provides the interconnection with the subscriber indoor modem unit, and also provides DC power to the transceiver.

The transceiver outdoor package is mechanically integrated with the antenna. It is designed to operate with different antennas ranging from 12 inches (30 cm) to 36 inches (90 cm) in diameter. The direct coupling between transceiver and antenna provides a low-loss connection and facilitates installation, mounting and alignment.

The unit is equipped with mounting hardware for operation in either horizontal or vertical antenna polarization. Diagnostic voltages are provided for local or remote monitoring via Ethernet port.

Product Specification¹



Transmitter Section	
Input Frequency ² :	45 - 65 MHz
Modulation Format:	QPSK and 16 QAM
Input Level:	Up to + 9 dBm
Output Level (Nominal):	17 dBm (QPSK)
Output Frequency ² :	25 to 26 GHz
Frequency Response:	± 1.5 dB
Receiver Section	
Input Frequency ² :	24 to 25 GHz
Input Level:	< -30 dBm
Noise Figure:	6 dB
RF-IF Gain (Nominal):	25 dB
Output Frequency:	349 – 629 MHz
Frequency Response:	± 1.5 dB
Frequency Stability:	± 2 ppm
Input Return Loss:	10 dB minimum
Output Return Loss:	10 dB minimum
Connector:	Type “F”
Temperature Range (Outdoor):	-22° to 112° F (-30° to 50° C)
Humidity:	100%
Primary Power:	+20 VDC to +36 VDC thru DC/IF “F” connector 16W max.
Weight:	2.8 kg
Dimensions:	25.4cm x 25.4cm x 27.9cm

¹ Specifications subject to change without prior notice.

² Other frequencies available.