grass valley
A BELDEN BRAND

Datasheet

TelePort 3G

Multichannel CWDM Management System

Reduce your cabling requirements by using fiber optic coarse wavelength division multiplexing (CWDM), in an easy-to-use, powerful wavelength-managing repeater.

The TelePort 3G from Grass Valley, a Belden Brand, multiplies the effectiveness of your fiber optic cables and solves your high bandwidth signal transport needs. The results are lower cable costs and simpler management of your broadcast facilities.

Coarse wavelength division multiplexing (CWDM) has become the preferred approach to optical multiplexing in digital video/audio communications because of its reliability and cost advantages. Designing systems around CWDM, however, can be a complex task. The TelePort 3G makes CWDM easy, flexible and economical.

Eliminate the spares hassle

The TelePort 3G accepts the optical output of virtually any digital transmitter, such as our Viper, Thunder, Cobra 2DT, etc., and converts the signal into a specific CWDM wavelength. At the other end, a CWDM demultiplexer directs the signal to your standard receiver. There is no need to purchase customized wavelengths for each system, or to buy spares for each wavelength. The TelePort 3G handles it all easily and seamlessly.

New life for what you own

You can take the fiber optic systems you already own, and combine them all on one or two fibers. If you work in the field, you can retire those 12-fiber cables and buy low cost 2-fiber cables. Easier and cheaper to replace, maintain or repair.

If you want to transport your signals between facilities on dark fiber, you will appreciate the cost benefit of leasing fewer fibers to carry more information. Or if you need fiber paths in a stadium, campus or facility, the fewer fibers you need, the easier it is to find them.

With the TelePort 3G, all your systems are CWDM-ready. This means when you have that big event, you can bring in more equipment, and it is automatically compatible with the TelePort 3G. And, since the TelePort 3G is repeating the optical signal, you get a fresh optical budget and another 25 km (15.5 mi.) of distance.

With each port capable of 3 Gb/s transfer, one unit can support up to eight HD cameras, 2,048 AES channels or any mix of signals you may need at the time.

KEY FEATURES

- Turns any optical signal into CWDM
- Multiplex up to 16 digital laser signals on 1 fiber
- Up to 3 Gb/s on each channel
- Re-amplifies up to additional 25 km (15.5 mi.)
- Re-amplifies up to 50 km (31 mi.) with APD option
- Standard 1300 nm or 1550 nm inputs
- Available dual or single CWDM single fiber outputs
- Front panel monitoring of all I/O
- Redundant power supplies
- Fast plug and play operation

SPECIFICATIONS

Transmitter Inputs

Interface: Digital optical

Input wavelength range: 1250 to 1650 nm

Input optical power range: -2 to -22 dBm

Input optical connector: ST

Maximum data rate, per channel: 3 Gb/s

Transmitter Output

Interface: Digital optical, CWDM

Output wavelengths:

1300 nm range standard: 1271, 1291, 1311, 1331, 1351, 1371, 1411 and 1431 nm

1500 nm range optional: 1471, 1491, 1511, 1531, 1551, 1571, 1591 and 1611 nm

Output power, per channel, typical: -3 dBm (±3 dBm)

Receiver CWDM

Input wavelengths:

1300 nm range standard: 1271, 1291, 1311, 1331, 1351, 1371, 1411 and 1431 nm

1500 nm range optional: 1471, 1491, 1511, 1531, 1551, 1571, 1591 and 1611 nm

Mechanical/Environmental

Dimensions (W x H x D): 203.2 x 44.45 x 444.5 mm (8 x 1.75 x 17.5 in.)

Weight, each end: 2.27 kg (5 lbs.)

Optical connectors: ST

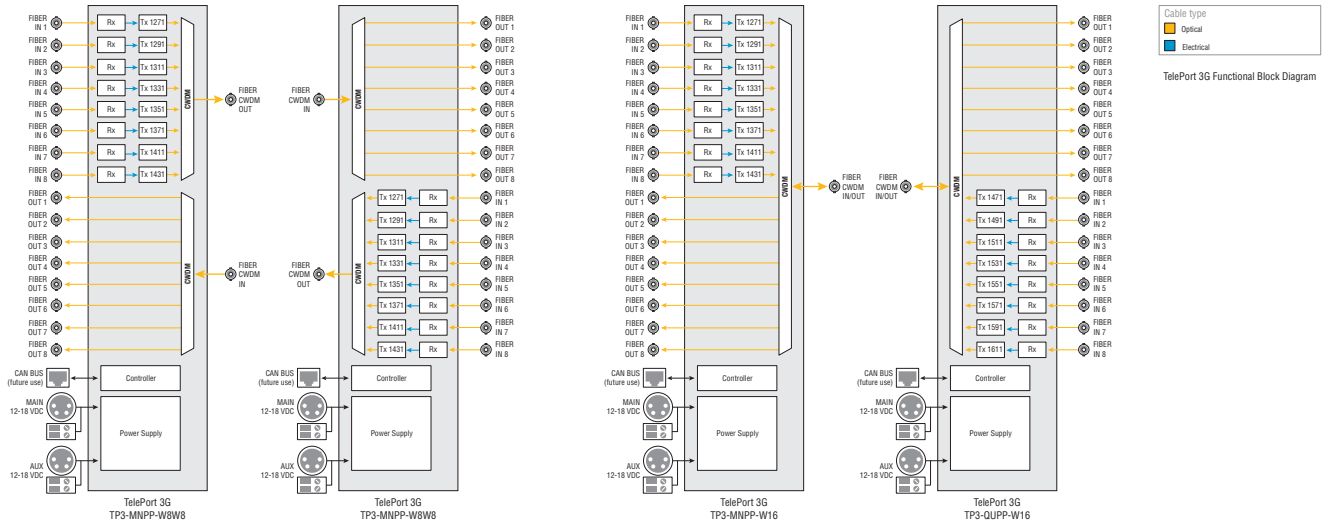
Input voltage: 12-24 VDC

Power consumption: <25W

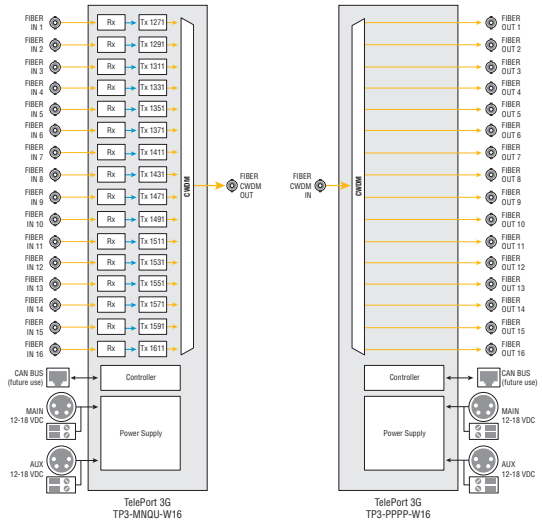
Indicators: Power ON, signal presence, optical power

Temperature range: -20° to 55° C (-4° to 131° F)

Humidity range: 0 to 95% non-condensing



TelePort 3G Functional Block Diagram



ORDERING

Order TelePort 3G as one-way or bidirectional systems.
Bidirectional systems are identical on both ends.

TP3-MNPP-W16	8 channel each way, 1 fiber, use with TP3-QUPP-W16
TP3-QUPP-W16	8 channel each way, 1 fiber, use with TP3-MNPP-W16
TP3-MNPP-W8W8	8 x 8 channel, 2 fibers, use in pairs

Power Supply (required for all units)

ADAP-AC-04	120/240V to 15 VDC, 4A, 4-pin XLRF

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