yelobrik odt 1540

Serial and GPI Fiber Transceiver (CWDM)

- Extend serial and GPI connections up to 40km
- Supports serial RS232 or RS422 or RS485
- 2 x GPI connections
- Select from 18 fiber wavelengths (CWDM)
- LC/PC duplex fiber connections
- Switchable RX/TX crossover
- Automatic or manual data direction
- Switchable end of line termination
- 'Plug and Play' No PC software drivers needed
- Supports all serial protocols (standard or proprietary)
- 300 460K Baud (auto sensing and auto adjusting)

The ODT 1540 is a multi-function CWDM compatible module which (when used with another ODT 1540 in the remote location) will extend the reach of serial RS232, RS422 or RS485 as well as two GPI (general purpose I/O) up to 40km over fiber. 18 wavelength sections are provided for CWDM use.

A single RJ45 electrical serial connection can be configured for RS232, RS422 or RS485 serial standards. A separate RJ45 connector is provided for two electrical GPI inputs and outputs. Serial communications and GPI are transmitted and extended over the same fiber link.

The ODT 1540 is completely agnostic to the serial protocol used, and supports all standard protocols and proprietary protocols at data rates from 300 to 460K Baud (auto sensing and auto adjusting).

The integrated dip switch provides precise control over the serial mode of operation with selections for the serial standard, serial termination, RX/TX crossover and RS422/485 data direction (automatic or manual). Data activity LEDs are provided for the serial port and the GPI port under the respective RJ45

The ODT 1540 also supports mixing and matching of serial standards. For example: the transmitting module can have a RS232 input, and the receiving module can be set for RS422 output.

The ODT 1540 is 100% plug and play, hot pluggable and no special software drivers are required.

CWDM TX Wavelength Selections

| Wavelength | Power | Option # | Wavelength | Power | Option # |
|------------|-------|---------------|------------|-------|---------------|
| 1270nm | +2dBm | OH-TR-54-1270 | 1450nm | +2dBm | OH-TR-54-1450 |
| 1290nm | +2dBm | OH-TR-54-1290 | 1470nm | +2dBm | OH-TR-54-1470 |
| 1310nm | +2dBm | OH-TR-54-1310 | 1490nm | +2dBm | OH-TR-54-1490 |
| 1330nm | +2dBm | OH-TR-54-1330 | 1510nm | +2dBm | OH-TR-54-1510 |
| 1350nm | +2dBm | OH-TR-54-1350 | 1530nm | +2dBm | OH-TR-54-1530 |
| 1370nm | +2dBm | OH-TR-54-1370 | 1550nm | +2dBm | OH-TR-54-1550 |
| 1390nm | +2dBm | OH-TR-54-1390 | 1570nm | +2dBm | OH-TR-54-1570 |
| 1410nm | +2dBm | OH-TR-54-1410 | 1590nm | +2dBm | OH-TR-54-1590 |
| 1430nm | +2dBm | OH-TR-54-1430 | 1610nm | +2dBm | OH-TR-54-1610 |



Technical Specifications

Serial I/O

EIA/ETA RS232C / RS422 / RS485 (selectable)

Baud rate - Auto sense and auto adjust from 300 to 460K

Serial setting dip switch provides settings for

- Select RS232 / RS422/485 modes Select serial termination (for end of line)
- RX/TX crossover to flip the RX and TX if needed
- Set RS422/485 data direction to automatic or manual if needed

LED status indicators (under RJ 45 connector)

Serial RX activity

RS422/485 Max number of electical nodes = 25

FSD protection for up to 26kV

GPI I/O

2 x general purpose inputs + 2 x general purpose outputs

Connector - RI45

GPI Inputs:

- External passive closure between pins (short) to trigger
- Max input switching frequency 25Hz (50 operations / second)
- Input insulation 3.75kV

GPI outputs:

- Internal contact closure (relay)
- Max switching frequency 25Hz (50 operations / second)
 Max switching power 220VDC / 0.25A or 250VAC / 0.25A
- Output insulation 3.75kV

LED status indicators (under RJ45 connector)

GPI Input 1 activity GPI Output 1 activity

GPI Output 2 activity

1 x fiber optic input (SMF)

(Range 1270-1610nm, Sensitivity -3dBm to -23dBm) 1 x fiber optic output (SMF)

CWDM (ITU-T G.694.2) 18 selectable wavelenaths (see table)

Duplex (Single mode) using LC/PC Connections

Fiber TX active and RX active LEDs on side of module

Max. distance 40km (24.8 miles - Singlemode)

+12VDC @ 0.25A power supply (included) **Power** Supports external power from 9 to 14VDC Power LED on side of module

105mm x 40mm x 22mm (4.13" x 1.57" x 0.86")

Model #

Module, 12V power supply + AC plug adapters, and mounting brackets Includes NOTE: No fiber SFP is supplied as standard, select required wavelength from

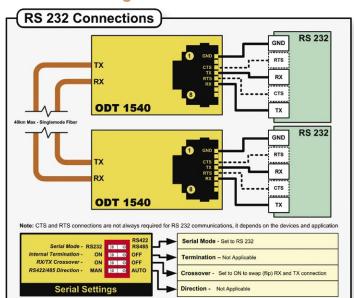
Specifications subject to change

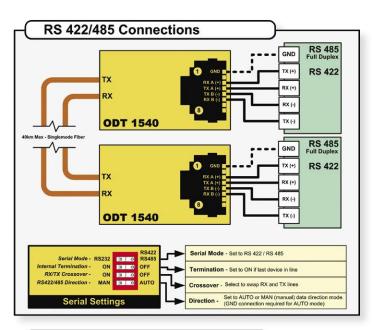


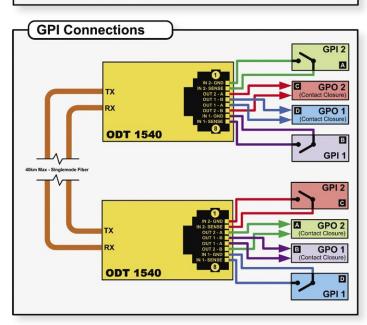
Brunnenweg 3 D-64331 Weiterstadt Germany PH +49 (0) 6150 1817 0 26366 Ruether Ave Santa Clarita, CA 91350 USA PH +1 (661) 251 8600

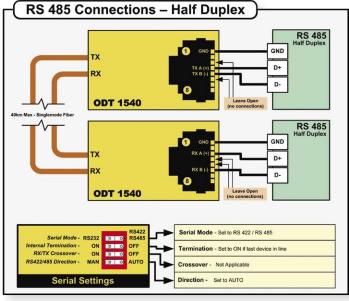
Velopik opt 1540

Connection Diagrams









Power Adapter Options

The module **INCLUDES** an AC power supply. The power adapters below are optional.



P-TAP 1000 Use with a standard battery P-TAP power source



XLR 1000 Use with a standard 4 pin XLR camera battery power source

Fiber Adapter Options

These adapters enable the use of ST or SC fiber connections on the module. SMF 0.5m (19.6") tail introduces less than 0.25dB attenuation.



LC/SC DUP LC/PC to SC/PC Adapter



LC/ST DUP LC/PC to ST/PC

Specifications subject to change