

# 7707DT, 7707DT-GPIO

## Multi RS-232 / RS-422 / RS-485 / GPIO Fiber Data Transceiver



The 7707DT series Fiber Data Transceivers provide an economical method of transmitting multiple bi-directional RS-232, RS-422, RS-485 data signals as well as Linear Time Code (LTC) over a single fiber optic link. The 7707DT-GPIO version provides additional RS-232 and General Purpose Input/Outputs (GPIO). A pair of 7707DT Data Transceivers permits bi-directional data transmission over distances up to 100km, with minimum possible latency.

Single and dual fiber (-F2) optical interface configurations allow the user to choose the optimal function/price/performance to suit a particular application. The dual fiber configuration is compatible with CWDM/DWDM systems and is

designed to transmit and receive over separate fibers. The optical output of the 7707DT is available in 1310nm, 1550nm, CWDM and DWDM wavelengths.

The 7707DT occupies one card slot and can be housed in a 1RU frame that will hold up to three modules, a 3RU frame that will hold up to 15 modules (seven for -GPIO version), a 350FR portable frame that will hold up to seven modules (three for -GPIO version) or a standalone enclosure, which holds one module. The 7707DT-GPIO occupies two card slots and can be housed in the same enclosures.

### Features & Benefits

- 7707DT transports four RS-422 or RS-485, three RS-232, and one LTC
- 7707DT-GPIO version provides five additional RS-232 and eight General Purpose Input/Outputs (GPIO)
- Selectable termination and failsafe bias settings for RS-422/485 data inputs
- Selectable network timeouts for RS-485 accommodates twelve data rates
- All configuration settings are controllable through the card-edge user interface, or VistaLINK®
- Optical output wavelengths of 1310nm, 1550nm, and up to sixteen CWDM wavelengths (ITU-T G.694.2 compliant)
- DWDM wavelengths also available (ITU-T G.694.1 compliant)
- Supports single-mode and multi-mode fiber optic cable (contact factory for multi-mode applications)
- SC/PC, ST/PC, or FC/PC\* fiber connector options
- Fully hot-swappable from front of frame
- Comprehensive signal and card status monitoring via four digit card edge display or remotely through SNMP and VistaLINK®
- VistaLINK® capability is available when modules are used with the 3RU 7800FR or 350FR frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame



