The 7708GT series Gigabit Ethernet Fiber Transceivers provide an economical method of transmitting 10/100/1000Base-T Ethernet channel over optical fiber. The transceiver is IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX and IEEE 802.3ab 1000BASE-TX compliant, mediates between a 10/100/1000BASE-TX segment. A pair of 7708GT transceivers permits full duplex communication over a single optical fiber or dual fiber. There is a built in two port gigabit Ethernet switch that supports a total bandwidth of 1000Mb/s. Diagnostic LEDs provide indication of power, linkage and data reception. The 7708GT series modules support jumbo frames and spanning tree protocol.

### Features & Benefits
- Auto negotiation for 10/100/1000 speeds, half/full duplex modes
- Link status monitoring indicators
- Optional VistaLINK® enabled for remote monitoring and control
- Optical output available in 1310nm, 1550nm and up to sixteen CWDM wavelengths in the 1270nm to 1610nm range
- DWDM (ITU-T G.694.1) wavelengths available
- Optical Power Monitoring
- Control/Indication
- Supports multi-mode or single-mode fiber (contact factory for multi-mode applications)
- Fully hot-swappable from front of frame with no fiber or Ethernet channel disconnect required
- SC/PC, ST/PC or FC/PC connector options
- Jumbo frame support
- Spanning tree protocol support

### Specifications

#### Ethernet Input/Output:
- Standard: IEEE 802.3 (10 BaseT)
- IEEE 802.3u (100 BaseTX)
- IEEE 802.3ab (1000baseTX)
- Connector: 2 RJ45
- Cable Requirements:
  - 10 BaseT: UTP category 3, 4 or 5 cable up to 328ft/100m (2 pairs)
  - 100 BaseTX: UTP category 5 cable up to 328ft/100m (2 pairs)
  - 1000 BaseTX: UTP category 5 cable up to 1648/50m (4 pairs)

#### Optical Input/Output:
- Connector Options:
  - Single Fiber version: 1 female SC/PC, ST/PC or FC/PC
  - Dual Fiber (F2) version: 2 female SC/PC, ST/PC or FC/PC
- Input Wavelengths: 1270nm-1610nm

#### Maximum Input Power:
- Standard: -4 dBm
- -H versions: -8 dBm

#### Input Optical Sensitivity:
- Standard: -4 dBm
- -H versions: -8 dBm

#### Output Optical Sensitivity:
- Standard: -23 dBm
- WDM (-w version): -21 dBm

#### Output Wavelengths:
- Standard: 1310nm, 1550nm (nominal)
- CWDM: 1270nm to 1610nm (ITU-T G.694.2 compliant)
- DWDM: C-Band (ITU-T G.694.1 compliant)

#### Output Power:
- 1310nm FP: -7 dBm ± 1 dBm
- 1310nm (-W): -1 dBm ± 1 dBm
- 1550nm, CWDM (DFB): 0 dBm ± 1 dBm
- DWDM (DFB): 7 dBm ± 1 dBm

#### Electrical:
- Voltage: 12V DC
- Power: 8W (Non DWDM)
- 10W (DWDM)

#### Physical (number of slots):
- 350FR: 1
- 7700FR-C: 1
- 7800FR: 1

#### Compliance:
- Class 1 laser product
- Complies with 24 CFR 1040.10 and 1040.11
- IEC 60825-1
- EMR/RFI: Complies with FCC Part 15, Class A
- EU EMC Directive

### Ordering Information

#### 7708GT13M-W
- Gigabit Ethernet Fiber Transceiver, single fiber. WDM, 1310nm FP TX, RX on 1550nm, VistaLINK®

#### 7708GT15-F2
- Gigabit Ethernet Fiber Transceiver, single fiber. WDM, 1550nm FP TX, RX on 1310nm, VistaLINK®

#### 7708GT13-F2
- Gigabit Ethernet Fiber Transceiver, dual fiber. 1310nm FP TX & RX, VistaLINK®

#### 7708GTxx-F2-H
- Gigabit Ethernet Fiber Transceiver, dual fiber. DWDM TX, High Sensitivity RX, VistaLINK®

#### Ordering Options
- Rear Plate and Fiber Connector must be specified at time of order
- Eg: Model +SC +3RU

#### Rear Plate Suffix
- +3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR Multiframe
- +1RU Rear Plate for use with 7701FR Multiframe
- +8A Standalone Enclosure Rear Plate

#### Connector Suffix
- +SC SC/PC
- +ST ST/PC
- +FC FC/PC

#### Enclosures
- 350FR 3RU Portable Multiframe which holds up to 7 single slot modules
- 7700FR-C 3RU Multiframe which holds up to 15 single slot modules
- 7800FR 3RU Multiframe which holds up to 15 single slot modules
- 7801FR 1RU Multiframe which holds up to 4 single or 2 dual slot modules
- 7701FR 1RU Multiframe which holds up to 3 single or dual slot modules
- 97701FR Standalone Enclosure

[Diagram and images related to the product]