7707ET-4
Quad Ethernet Fiber Transceiver

The 7707ET-4 is a VistaLINK® -capable Quad Ethernet Fiber Transceiver that transmits up to four separate 10/100BaseT Ethernet channels over optical fiber. Monitoring of card status and parameters is provided locally at the card edge and remotely via VistaLINK®. A pair of 7707ET-4 transceivers permit full duplex communication of all four channels over a single or dual optical fiber(s).

The 7707ET-4 provides four RJ45 input connectors and either one or two fiber optic output connectors.

The 7707ET-4 occupies one or two card slots can be housed in a 1RU frame that will hold up to three modules, a 3RU frame that will hold up to 15 modules, a 350FR portable frame that will hold up to seven modules or a standalone enclosure, which holds one module.
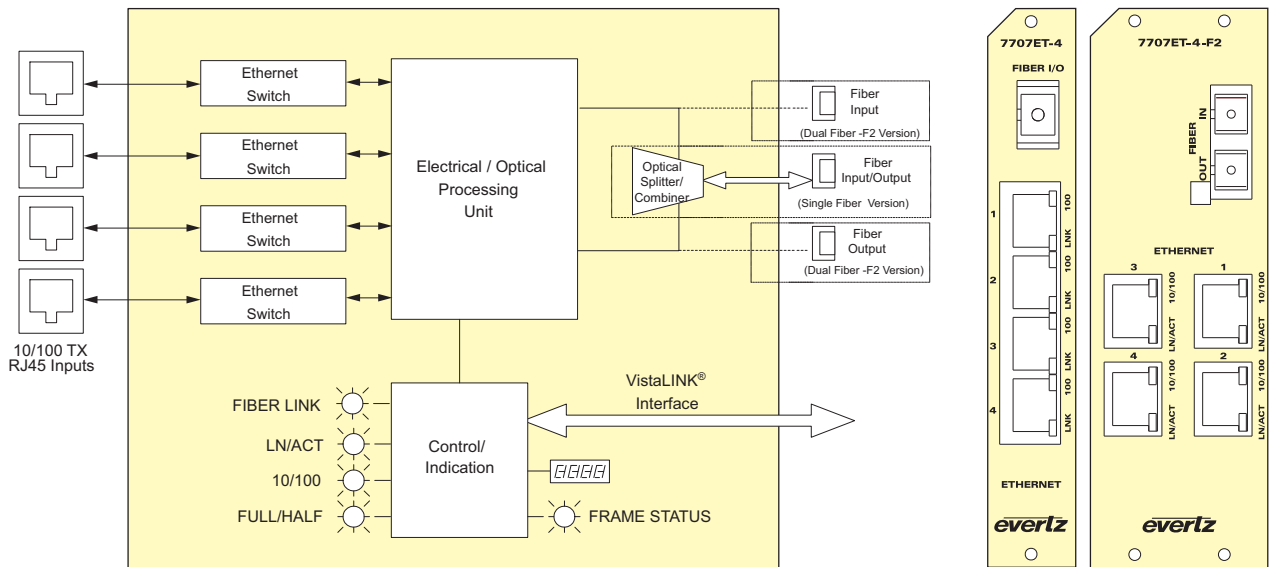
▶**Features & Benefits**

• Four completely independent and isolated Ethernet streams
• Auto negotiation for 10/100 speeds on all ports
• Built-in Ethernet switches for isolation of each transmission end
• 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
• Optical output wavelengths at 1310nm, 1550nm and up to sixteen CWDM wavelengths (ITU-T G.694.2 compliant)
• DWDM wavelengths (ITU-T G.694.1 compliant) also available

• Fully hot-swappable from front of frame
• SC/PC, ST/PC, FC/PC Connector options

Status Indication
• Frame status
• 10/100 Speed indication on copper ports
• Full Duplex/Collision indication on copper ports
• Link activity on copper ports
• Received optical power level

▶**Specifications**

Ethernet Input/Output:		Maximum Input Power:		Electrical:	
Standard:	IEEE 802.3 10BASE-T	Standard:	-1dBm	Voltage:	+12V DC
	802.3u 100BASE-TX	F2-H Versions:	-8dBm	Power:	
Connectors:	4 RJ45 ports	Input Optical Sensitivity:		Non-DWDM:	12W
Cable Requirements:		WDM (-w version)	-22dBm	DWDM:	14W
10Base-T:	UTP category 3, 4, or 5 cable up to	Standard:	-23dBm		
	328ft/100m	High Sensitivity (-H):	-28dBm	**Physical (number of slots):**	
100Base-T:	UTP category 5 cable up to	Wavelengths:		350FR, 7700FR-C, 7800FR:	
	328ft/100m	Standard:	1310nm, 1550nm	Single Fiber:	1
		CWDM:	1270nm - 1610nm	Dual Fiber:	2
Optical Input/Output:		DWDM:	C-Band (ITU-T G.694.1 compliant)		
Connector:		Output Power:		**Compliance:**	
Single Fiber Version:	1 Female SC/PC, ST/PC, FC/PC	1310nm FP:	-7dBm ±1dBm	Laser Safety:	Class 1 laser product
Dual Fiber Version:	2 Female SC/PC, ST/PC, FC/PC	1310nm (-W):	-1dBm ±1dBm		Complies with 24 CFR 1040.10 and
Input Wavelengths:	1270nm to 1610nm	1550nm, CDWM (DFB):			1040.11
Rise & Fall Time:	200ps nominal		0dBm ± 1dBm		IEC 60825-1
Wide Band Jitter:	< 0.2 UI	DWDM (DFB):	+7dBm ± 1dBm	EMI/RFI:	Complies with FCC Part 15,
					Class A
					EU EMC Directive

Ordering Information

7707ET13M-4-W	Quad Ethernet Fiber Transceiver, single fiber, WDM, 1310nm FP TX, RX on 1550nm
7707ET15-4-W	Quad Ethernet Fiber Transceiver, single fiber, WDM, 1550nm DFB TX, RX on 1310nm
7707ET13-4-F2	Quad Ethernet Fiber Transceiver, dual fiber, 1310nm FP TX & RX
For CWDM, please refer to the end of the fiber section for ordering information	
7707ETxx-4-F2	Quad Ethernet Fiber Transceiver, dual fiber, CWDM TX
7707ETxx-4-F2-H	Quad Ethernet Fiber Transceiver, dual fiber, CWDM TX, High Sensitivity RX
For DWDM, please refer to the end of the fiber section for ordering information	
7707ETDxxx-4-HD-F2	Quad Ethernet Fiber Transceiver, dual fiber, DWDM TX
7707ETDxxx-4-HD-F2-H	
	Quad Ethernet Fiber Transceiver, dual fiber, DWDM TX, High Sensitivity RX

Ordering Options	Rear Plate and Fiber Connector must be specified at time of order (Eg. Model +3RU +SC)

Rear Plate Suffix

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

Connector Suffix

+SC	SC/PC
+ST	ST/PC
+FC	FC/PC
+AP+SC	SC/APC (Angle Polished)
+AP+FC	FC/APC (Angle Polished)

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
S7701FR	Standalone Enclosure