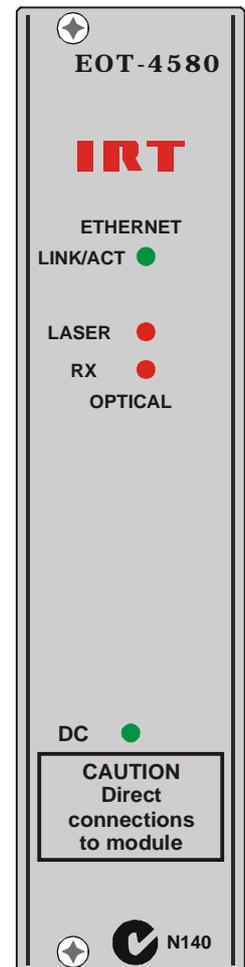
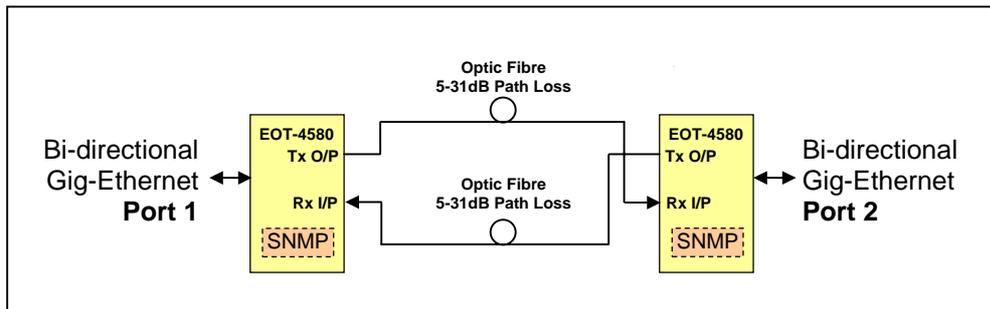


Gigabit Ethernet to Optical Fibre Transceiver Type EOT-4580



Features:

- **Standard RJ-45 CAT-5 Ethernet connection.**
- **Path lengths up to 31dB optical path loss using 9/125µm single mode fibre.**
- **Front panel LED indicators.**
- **Fibre, Ethernet connections at rear.**
- **Optional plug-in SNMP monitoring module.**

General:

The IRT EOT-4580 transceiver module is designed principally for use as a Gigabit Ethernet to fibre optic transmission link, using 9/125µm single mode fibre, with optical paths losses up to 31dB.

The EOT-4580 conforms to the IEEE 802.3ab standard for Gigabit Ethernet over CAT-5 cable, and the IEEE 802.3z standard for Gigabit Ethernet over optical fibre.

A fibre transmitter and separate fibre receiver are incorporated on the one card allowing bi-directional communication over a pair of single mode fibre optic cables.

The EOT-4580 is ordered as the main base-board (EOT-4580) and separate plug-in laser and receiver modules.

The laser transmitter is a plug-in module allowing a choice of wavelengths to be used, the standard module being fitted with an FP type SC/PC 1310nm laser – part number HOO-1300.

Likewise the receiver is also a separate plug-in module. The standard module being an APD detector – part number HOI-4000/PC.

An optional SNMP (Simple Network Management Protocol) plug-in module is available for remote monitoring when used in conjunction with IRT's 4000 series frame fitted with SNMP capability.

The EOT-4580 is a Eurocard module designed to fit IRT's 1RU frame or IRT's 4000 series frames for use with IRT's SNMP system and may be used alongside any other of IRT's Eurocards.

EOT-4580 Technical Specifications

Ethernet

Type	Standard IEEE 802.3ab
Data Rate	1,000 Mb/s
Connector	RJ-45

Optical

Type	Standard 802.3z
Optical path loss*	5 to 31 dB.
Optical fibre	Designed for use with 9/125 single mode fibre.
Optical wavelength	See laser sub-board ordering information.
Optical connectors	SC/PC (standard).
EOT-4580 optical output	With LASER sub-board fitted, 0 dBm typically.
Laser sub-board ordering information:	
HOO-1300	1310 nm \pm 50 nm FP laser (SC/PC) - (standard).
HOO-1510	1510 nm \pm 3 nm DFB laser (SC/PC).
HOO-1530	1530 nm \pm 3 nm DFB laser (SC/PC).
HOO-1550	1550 nm \pm 3 nm DFB laser (SC/PC).
HOO-1570	1570 nm \pm 3 nm DFB laser (SC/PC).
EOT-4580 optical input*	With APD detector sub-board fitted, -5 to -31 dBm input level.
Receiver sub-board ordering information:	
HOI-4000/PC	APD detector (SC/PC) - (standard).

Power requirements:

Voltage	28 Vac CT (14-0-14) or \pm 16 Vdc.
Consumption	< 5 VA

Front Panel Indicators:

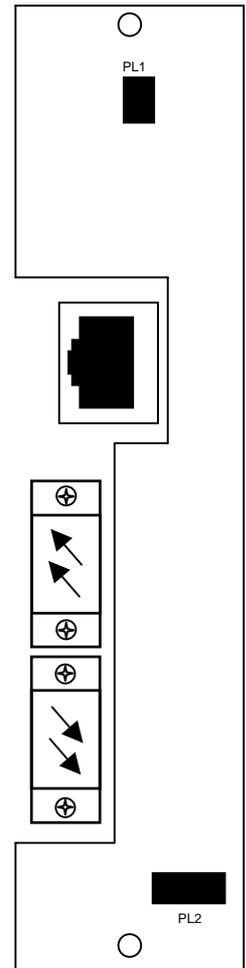
DC	LED (green) for +5V power.
LINK/ACT	LED (Green) on Ethernet link connected/LAN activity.
LASER	LED (red) on laser failure
RX	LED (red) on no receiver input.

General:

Operating temperature	0 to 50° C ambient.
Mechanical	Suitable for mounting in IRT 1RU 1000 series and 3RU 4000 series 19" rack chassis types with input, output and power connections to the rear.
Size	6 HP x 3U Extended Eurocard (220 mm x 100 mm).
Front panel	Grey background, black lettering & red IRT logo.
Rear assembly	Detachable silk-screened PCB with direct mount connectors to Eurocard and external signals.
Optional accessories	SMU-4000 SNMP plug in module for use with 4000 series frame fitted with SNMP "Agent". ATT-BLUE 5dB – 5dB optical attenuator for use where optical path losses are less than 5dB.

Note: * Optical attenuator recommended for EOT-4580 when optical path loss is less than 5dB.

Due to our policy of continuing development, these specifications are subject to change without notice.



Detailed specifications available from:

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IRT can be found on the Internet at:
<http://www.irtelectronics.com>