FEATURES & BENEFITS

PERFORMANCE
- Simple to use with integrated Ethernet switch.
- Auto-negotiation 10/100 Mbps.
- Automatic cable selection MDI/MDI-X.
- 100m of copper cable Cat. 5e or higher supported.
- On one module 1or 2 optical transmission 10/100.
- Possible junction of two transmissions to realize a switch with 2 optical ports + 2 RJ45 ports.
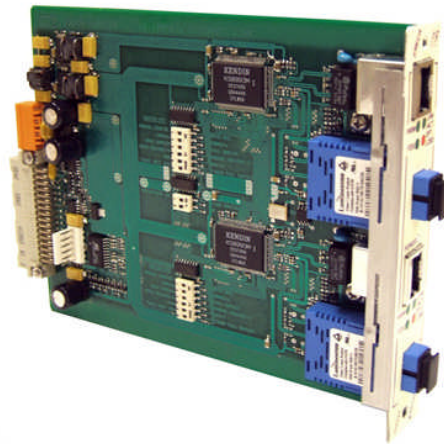
OPTICAL
Transmission on one or two optical fiber. Dynamic range up to 40 Km on one fiber.

DESIGN
HOT SWAP module to fit in the ERC 17-001 chassis or ERC 17SA stand alone box.

3 year warranty

ETHERNET 10/100 TRANSMISSION ON OPTICAL FIBER

ERC ETH module converts Ethernet 10/100 BASE-T (Standards IEEE 802.3 and IEEE 802.3u) to optical fiber 100 BASE-FX.

The module is designed with non blocking architecture to insure a permanent 100 Mbps bandwidth. Ethernet switch facilities give a wide range of configuration so it is not necessary to use the same network configuration at each end of the optical link.

Each module is equipped with 1 or 2 media converter. In the case of 2 independent media converter on the same module, The module can be set by the user to couple the two transmissions and make a switch with 2 RJ45 + 2 optical ports.

In accordance with suitable configuration, theses modules can operate on 1 singlemode fiber or 2 multimode or singlemode fibers. Optical dynamic range of the equipment can reach 120Km at 1550nm on two singlemode fiber. Standard modules offer 20 or 40 Km of dynamic on only one optical fiber (consult ERECA for other dynamic range).

Each port has auto negotiation function, it is also possible to enforce the data rate and the duplex mode on the Ethernet port. It is the same for the auto MDI function.

Electrical interface

Port rate	10/100 Mbps.
Selection rate	Auto-negotiation or lock up.
Duplex	Auto-negotiation or lock up.
Connection	Auto-MDI or lock up.
Connector	RJ 45.
Supported copper cable	100 m Cat. 5e at 100 Mbps

Indicators

For each Ethernet media converter

LED "green": LINK/ACT	Link and Ethernet activity.
LED "green": 100M	Link at 100 Mbps.
LED "green": FDX	Link full-duplex.
LED "red": OPT.LOSS	No optical link.

For module 1 or 2 converter.

LED "green": POWER	Supply voltage OK.

Optical interface

Transmission	Bidirectional on 1 or 2 fibers
Optical dynamic 1 fiber	23dB (20Km) or 29dB (40Km).
Wavelength	1310 /1550, 1310 or 1550.
Receiver sensitivity	- 29 dBm*.
Connector	SC/PC.

(*) For 50/125, optical dynamic can be limited by bandwidth of the fiber.

Switch Ethernet

MAC data base capacity	1000 Nodes.
Operation	Store and Forward.
Packet buffer	32Kb for each end.
Max packet size	1536 bytes.

Environmental

Power consumption	1.45 W per media converter.
Storage	- 20°C to + 70°C.
Operating	- 10°C to + 60°C.
Humidity	95 % non condensing.
EMC	UTE C70-201 & C70-202

RoHS Compliant

CONTACT INFORMATION

ERECA S.A

75 rue d'Orgemont
95210 SAINT GRATIEN France

☎ 33 (0) 1 39 89 76 23   Fax 33 (0) 1 34 28 16 25
E-mail : ereca@ereca.fr   Web : www.ereca.fr