

FEATURES & BENEFITS

PERFORMANCE

- Very compact size.
- Very low power design.
- Easy to use thanks to integrated Ethernet switch.
- Auto-negotiation 10/100 Mb/s.
- Automatic cable selection straight / cross (MDI/MDI-X).
- 100m of Cat. 5 copper cable support.
- 2 electrical ports.

OPTICAL

- Transmission over one or two optical fibres.
- Compact model with integrated optics.
- Flexible model with SFP module.

DESIGN

- Compact design easy to integrate in camera or dome. (Kit available).
- DIN rail clip available.

3 year warranty

10/100 Mb/s ETHERNET TRANSMISSION ON OPTICAL FIBER



ERC ETH 112 module converts Ethernet 10/100 BASE-T (Standards IEEE 802.3 and IEEE 802.3u) to optical fiber 100 BASE-FX. Each module has 1 optical port and 2 electrical ports.

The module is designed with non blocking architecture to insure a permanent 100 Mbps bandwidth. Thanks to integrated switch it is not necessary to use the same network configuration at each end of the optical link.

These modules accommodate with a wide range of optical network, it can operate on 1 singlemode fiber or 2 multimode or singlemode fibre. An SFP model is also available.

Each port has auto negotiation feature. No mode or rate setting is required. On request Optical → Electrical or Electrical → Optical fault propagation is enabled in the module.

The ERC ETH 112 modules are compatible with the other modules of the ERC ETH family.

Electrical interface

Port rate	10/100 Mb/s.
Selection rate	Auto-negotiation.
Duplex	Auto-negotiation.
Connection	Auto-MDI / MDI-X.
Connector	RJ 45 (2 ports).
Supported copper cable	100 m Cat. 5 at 100 Mb/s.

Indicators

LED "green": OPTICAL LINK	Link and optical activity.
LED "green": ON	Power supply connected.

For each electrical port:

LED "green": LNK/ACT	Link and Ethernet activity.
LED "yellow": 100M	Link at 100 Mb/s.

Switch Ethernet

MAC table capacity	2000 Nodes.
Operation	Store and Forward.
Packet buffer	80Kb for each end.
Max packet size	1536 bytes.

Power supply

Voltage	10 to 36 VDC, 10 to 24 VAC.
Power consumption	1.1 W.

Optical interface

Standard model	M	A
Wavelength (nm)	1310	1310 / 1550
Optical fibre	multimodes	Multimodes* Singlemode
Number of optical fibre	2	1
Output power (dBm)	- 22	-13 or -3
Sensitivity (dBm)	- 3 to - 32	-3 to - 32
Optical fibre length (km)	2	20**, 40**, 60
Optical connector	SC/PC	SC/PC

(*) With 50/125 or 62,5/125 optical fiber, the dynamic range can be reduced depending on the bandwidth of the optical fiber.

(**) With chromatic dispersion at 1550 nm < 15 ps/nm.km.

Standard model	Integrated optics module.
Optional model	SFP optical module.

Mechanical & Environmental

Dimension	63 x 46.2 x 25 mm.
Weight	110 g
Storage	- 30°C to + 80°C.
Operating	- 20°C to + 70°C.
Humidity	95 % non condensing.
EMC	UTE C70-201 & C70-202



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

In the interest of product development we reserve the right to change specifications without notice.