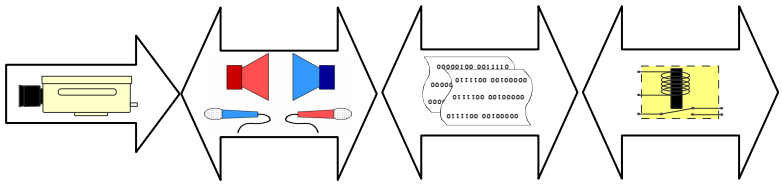
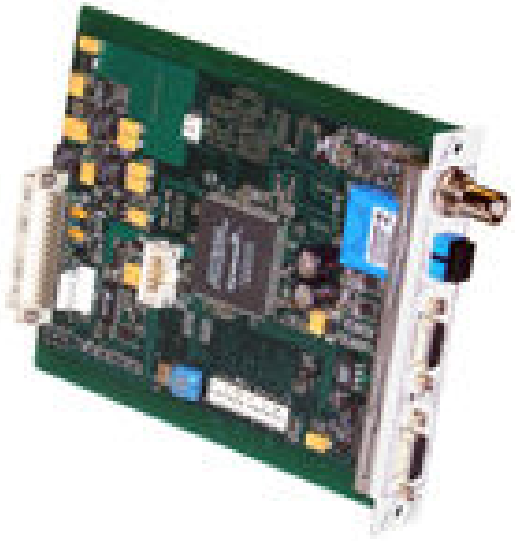
# PRODUCT GUIDE
# ERC 1300

## DIGITAL TRANSMISSION
## VIDEO AUDIO DATA C.C. ON 1 FIBER





**ERC 1300** is bidirectional transmission equipment. It allows transmission of video signal, audio, data and contact closure on one optical fiber.

Transmitter and receiver are presented as pluggable board modules. ERC 1300 can be plugged either in a stand alone box ERC 17SA or in the 19'' 3U chassis ERC 17-001. Those modules can be removed or insert of their housing under power without any perturbation.
Equipments housing in chassis can be supervised by the ERC 17 GUARD (HTTP or SNMP) module.
Only one ERC 17-001 chassis is able to receive up to 13 ERC 1300 modules.
The excellent quality of the video transmission (S/N = 67 dB) is performed by the expertise of processes including digital coding, digital filtering and 10 bits video technology. At the first service, with help of the AGC, no setting is required.

As an option the output signal of the receiver is distributed on 2 SMB connectors with the same quality, to double video accesses.

An audio gain adaptation permits balanced or unbalanced audio input/output without loss of level signal.

Modules are adapted to the RS 232, RS 422 and RS 485 (4 or 2 wires) standards by internal setting. The back plane of the chassis is designed to collect and centralise data through one access board only.

### FEATURES & BENEFITS

**BIDIRECTIONAL TRANSMISSION**
**ERC 1300 is designed to transmit video in one way and in two way 2 audio + 1 data channel + 1 contact closure, on only one optical fiber.**

**PERFORMANCES**
**Digital transmission with 10 bits coding so digital filtering of the video signal warrant a very high quality of the video signal.**
**Transmission is able to cover up to 65 km distance and more.**

**MULTI-PURPOSE**
**Equipments are adapted to single mode or multimode optical fiber. Transmission is on only one fiber.**

**INTEGRATION**
**Transmitter and receiver modules can be plugged either in a stand alone box with multi-purpose power supply or in a 19'' 3U chassis with 13 modules capacity.**
**The low consumption of the module allows the high concentration in a bay without critical sans critical heat.**

**SIMPLE TO USE**
**No video setting.**
**A collation back bus allows centralising data on only one in /out connector for the chassis.**

**FIABILITY**
**Low power consumption is the warranty of a great reliability.**

**3 year warranty**

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| VIDEO | | | |
|---|---|---|---|
| Format : | PAL, SECAM or NTSC | Bandwidth : | 0 to 5.8 MHz at ± 0.2 dB |
| Input level : | 1 volt ± 3 dB | Group delay : | < 10 ns at 4,43 MHz |
| Output level : | 1 volt (AGC video) | S/N ratio : | 67 dB (CCIR 567) |
| Differential gain : | < 1 % | indicators : | Video presence |
| Differential phase : | < 1 ° | Connector : | BNC or 2 SMB |
| Impedance : | 75 Ω | Filter : | Digital |

| AUDIO | | | |
|---|---|---|---|
| Channel number : | 2 Bidirectional | Gain : | 0 or + 6 dB |
| In / Out level : | + 6 dBm | S/N at 1 KHz : | 83 dB |
| Input impedance : | 600 Ω symmetric | Distortion : | < 0.05% at 1 KHz |
| Output impedance : | < 22 Ω symmetric | Connector : | SubD E HD 15 contacts |
| Bandwidth : | 20 to 20 000 Hz at –0.5 dB | | |

| DATA | | | |
|---|---|---|---|
| Protocol : | RS 232, 422 or 485(2 or 4 wires) | Mode : | Asynchronous |
| Rate : | DC to 230 K bauds | Connector : | SubD E HD 15 contacts |
| Data control : | 2 from DC to 23 K bauds | Indicator : | Data activity |
| Contact Closure : | 1 bidirectional | | |

| OPTICAL | | | |
|---|---|---|---|
| Wavelength : | 1310/1550 nm | Connector : | SC/PC |
| Optical dynamic : | 24 dB or 29 dB | Indicator : | Synchronized receiver |

| MECHANICAL & POWER SUPPLY | | | |
|---|---|---|---|
| **Module transmitter for chassis** | | **Chassis & Power supply** | |
| Size : | 1 slot | Size : | 19" x 3U x 210 mm |
| Electrical consumption : | 2.1 W | Capacity : | 13 slots |
| Insert / Extract : | Hot swap | Power supply : | redundant, extractible |
| **Module receiver for chassis** | | Voltage : | 230 Vac +10/-15% 50/60 Hz |
| Size : | 1 slot | **Stand alone box** | |
| Electrical consumption : | 2.3 W | Size : | 245 x 135 x 28 mm |
| Insert / Extract : | Hot swap | Main voltage :<br>Or Direct current : | 230 Vac +10/-15%, 50/60 Hz<br>8 to 24 VDC or 8 to 16 VAC |

| ENVIRONMENTAL | | | |
|---|---|---|---|
| Operational T° : | - 20 to + 70 °C | Humidity : | 95 % non condensing |
| Storage T° : | - 30 to + 80 °C | EMC : | UTE C70-201 & C70-202 |

RoHS Compliant

**ERECA S.A.**
75, rue d'Orgemont
95210 SAINT GRATIEN
☏ 33 (0)1 39 89 76 23 🖷 33 (0)1 34 28 16 25
Email : ereca@ereca.fr Web : www.ereca.fr