PRODUCT GUIDE
HORUS16

DIGITAL TRANSMISSION OF 16 VIDEO SIGNALS AND ETHERNET MULTIPLEXED ON OPTICAL FIBER

Description

HORUS16 system assumes 16 video channels transmission for each wavelength, different options associate data and IP 10/100 Mb channel on the same optical fiber.

HORUS16 equipment is capable to work in bi-directional mode on only one fiber.

CWDM technique used with HORUS16 allows real time transmission of up to 128 video channels on fiber.

Digital transmission technology at 3 Gigabits/s guarantees, real time transport of the signal, without compression, transmission with 10 bits digitizing process offer a signal to noise better than 67 dB.

An Automatic Gain Control on the video channels makes the installation easier.

Two “Hot swappable” redundant power supply allow sourcing energy from two separate mains network.

HORUS 16 has been designed to offer the smallest size possible, its 19’’ 1U chassis can be fitted in a rack without cooling space.
The equipment can be fitted either on front or back panel, display is available on both side.

Two alarms are available on relays.

HORUS16 are equipped of alarm controller and can be supervised through Ethernet network.
The consultation is done with a browser giving the display of HTML format pages.

As an option control can be done with an integrated SNMP V1 agent.

FEATURES & BENEFITS

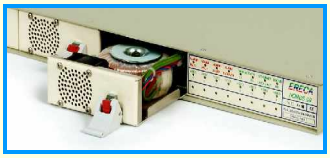
REAL TIME
To secure a very high quality of transmission, the system is designed with a real time digitizing technique.

DIGITIZING
Video are digitized on 10 bits to offer a quality of image equivalent to « broadcast production » with a signal to noise better than 67 dB.

PERFORMANCE
Digital transmission is capable of constant quality of signal in the full optical dynamic range of the product.

HIGH CAPACITY
Up to 128 video channels on the same optical fiber with CWDM Technique.

POWER SUPPLY
Two “*hot swap*” redundant power supply .



PLUG AND PLAY
No setting are required due to the AGC circuitry on the video channels.
Ethernet interface auto MDI-X.
Web browser, or SNMP supervision.

3 years warranty for peace of mind

TECHNICAL SPECIFICATIONS
HORUS16

Video

Format	PAL, SECAM, NTSC
Channels	16 by λ
Input level	1 volt +/- 3 dB
Setting	Automatic AGC
Input impedance	75 Ω
Bandwidth	5.8 MHz at ± 0.3 dB
Sampling	12 bits + digital filtering
S/N	> 67 dB (CCIR 567)
Differential gain	< 1%
Differential phase	< 1°
Connector	BNC
Display	video presence

Ethernet

IP Transmission (as option)	10/100 Mbs/s
Interface	RJ 45 Auto MDI-X
Display	Signal presence,
activity	

Supervision

ERECA-NET	IP Interface (Readable with browser)
SNMP intergrade Agent	(as option) MIB ERECA
Alarms	2 closure contacts

Environmental

Operating T°	-20 to + 70°C
Storage T°	-30 to + 70°C
Humidity	95% non condensing
EMC	In accordance with CE standard

Données

Bi-directional	As an option
Channel number	1
Protocols	RS 232, 422, 485
Data rate	0 to 115 000 b/s
Connector	Sub-D 9 HD
Display	TX, RX

Optical

Mono directional Wavelength	1310 or 1550 nm
Optical power	+ 2 or -10 dBm
Component	laser diode
Sensitivity min.	- 21 dBm
Sensitivity max.	- 3 dBm
Connector	SC/APC
Bi-directional Wavelength	1310 and 1550 nm
Component	laser diode
Sensitivity min.	- 20 dBm @ 1550 nm
Connector	SC/APC
Display Transmitter	Laser faulty
Receiver	Synchro. faulty

Power supply

Main	230 Vac, 50/60 Hz +10/-15%
Transmitter	25 VA
Receiver	25 VA
Redundant power sup.	2 « Hot-swap » PSU
Display	Mains presence

Mechanical

Size	19", 1U, 320 mm
Weight	3,3 kg

RoHS Compliant

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