

OCTA 6000

Features

- 8-channel single fibre, digital video system
- Exceeds EIA RS-250C short haul
- 10-bit uncompressed video
- Advanced digital filtering
- No latency
- High reliability
- 19" Rack-mount, including power supply
- SNM™ compatible

Description

The OCTA 6050 8-channel digital video multiplexers and demultiplexers transmit and receive eight high-quality video signals over one single-mode fibre. By using 10-bit digital encoding and decoding, oversampling and digital filtering, this system excels in video transmission performance, exceeding the requirements of the EIA RS-250C short haul specifications. The wide operating temperature range of these units makes the OCTA 6050 system extremely well suited for environmentally harsh applications such as traffic monitoring, incident management, video surveillance in city centres, airport security etc.



10-bit

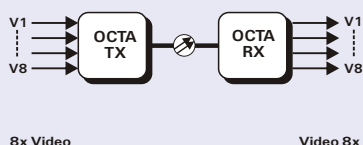
The OCTA 6050 comes as a twin Eurocard cassette, suitable for an MC 11 power supply cabinet, or as a stand-alone unit (/SA version). LED indicators provide an instant overview of the system's status.

Smart Network Management (SNM™) provides status information of all transmission parameters.

Ordering information

Model	Description	Fiber type	Wavelength(s)	Budget	Housing	Managed
OCTA 6050 TX OCTA 6050 RX	8-channel digital video multiplexer 8-channel digital video demultiplexer	SM	1310 nm	16 dB	rack-mount	SNM
OCTA 6050 TX/HP OCTA 60xx /SA	8-channel digital video multiplexer Stand-alone version of rack-mount models	SM	1310 nm	23 dB	rack-mount stand-alone	SNM SNM

Applications



Technical Specifications

Video

Number of channels	8
Video format	PAL/SECAM/NTSC
In-/output level	1 Vpp (± 3 dB)
DC restore (clamping)	On or off (selectable)
Bandwidth (-3 dB)	6 MHz
Sampling resolution	10-bit
Sampling rate	27 Msamples/s, 2x oversampled
Group delay	< 10 ns
Differential gain	< 1%
Differential phase	< 1°
SNR	> 67 dB (weighted)
Connector type	BNC 75 Ω (gold-plated centerpin)

Powering

Power consumption	< 12 W (1 A inrush)
Rack-mount units	MC 10 and MC 11 power-supply cabinets
Stand-alone units (/SA)	11 to 16 Vdc (PSA 12 DC/25 or PSR 12 DC)

Management

LED status indicators	
DC	Power-on indicator (green)
NV	No video on in- or output (red)
SYNC	Operational link (green), local synchronization error (red)
Network Management	SNM™ compatible
SNM™ variables	PS Voltages, module temperature, module status, optical levels, configuration, etc.

Environmental

Operating temperature	-40 to +74°C
Relative humidity	< 95% (no condensation)
MTBF	> 100,000 h
Safety & EMC	IEC/EN 60950-1, IEC/EN 60825, IEC/EN 61000 EN 50130-4, EN 50081-1, EN 55022, FCC part 15

Mechanical

Dimensions (hwxwd)	128 x 71 x 190 mm
Weight (approx.)	900 g
Housing	Rack-mount or stand-alone

Optical	OCTA 6050 TX - RX	OCTA 6050 TX/HP - RX			
Fiber type	1x SM	1x SM			
System budget	16 dB	23 dB			
Min. link loss	0 dB	7 dB			
Optical return loss	> 45 dB	> 45 dB			
Output power	> -4 dBm	> 3 dBm			
Output wavelength	1310 nm	1310 nm			
Input sensitivity	-3 to -20 dBm	-3 to -20 dBm			
Connector type	SC/APC	SC/APC			

