

OCTA 5000

Features

- 8-channel digital video multiplexer
- Uncompressed 10-bit video (SNR >67 dBw)
- No signal degradation over long distances
- Adjustment-free operation
- Compact rack-mount or stand-alone
- SNM™ compatible

Description

Providing a compact combination of signal quality and ease of use, an OCTA 5000 system will simultaneously transmit eight camera signals over one optical fibre. Compressionless 10-bit digitizing and a very high sample rate ensure constant, exceptional video signal quality and adjustment-free operation over a wide optical range.


10-bit

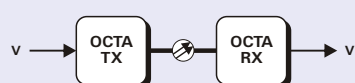
This very compact video multiplexer operates within very broad temperature limits and is therefore suitable for outdoor applications. Each OCTA 5000 module comes as a twin Eurocard cassette to be slotted into an Optelecom-NKF MC 11 power supply cabinet, or as a stand-alone unit (/SA version). All OCTA 5000 equipment is SNM™ compatible.

Ordering information

Model	Description	Fiber type	Wavelength(s)	Budget	Housing	Managed
OCTA 5010 TX OCTA 5010 RX	8-channel digital video multiplexer 8-channel digital video demultiplexer	MM	1310 nm	16 dB ¹⁾	rack-mount	SNM
OCTA 50xx /SA	Stand-alone versions of rack-mount models				stand-alone	SNM

¹⁾: Due to fibre bandwidth the maximum transmission distance may be limited to 2 km.

Applications



8x Video

Video 8x

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 (approximately)	900 g
Housing	Rack-mount or stand-alone

Optical	OCTA 5010 TX - RX			
Fiber type	1x MM			
System budget	16 dB ¹			
Min. link loss	0 dB			
Output power	> -4 dBm			
Output wavelength	1310 nm			
Input sensitivity	< -20 dBm			
Connector type	ST			

¹): Due to fiber bandwidth, the maximum transmission distance may be limited to 2 km.

