



8-channel digital video

Features

- 8-channel digital video multiplexer with 2-way PTZ data
- High-quality, uncompressed digital video (SNR >63 dBw)
- No latency, no compression artifacts
- No signal degradation over long distances
- Adjustment-free operation
- Compact rack-mount or stand-alone
- SNM[™] compatible



Providing a compact and cost-effective combination of signal quality and ease of use, the OCTA 4000 will simultaneously transmit eight camera signals over one single-mode or multimode optical fiber.

Uncompressed 9-bit digitizing, over-sampling and digital filtering ensure a very high transmission performance of the video channels, exceeding the requirements of the EIA RS-250-C short-haul specifications, without the artefacts of compressed images.

The wide operating temperature range of these units make the OCTA 4000 system extremely well suited for

Preliminary product data

OCTA 4000



environmentally harsh applications such as traffic monitoring, incident management, video surveillance in city centers, airport security etc.

The OCTA 4000 comes as a twin Eurocard cassette, suitable for an MC 10 or MC 11 power-supply cabinet, or as a stand-alone unit (/SA version). LED indicators give an instant overview of the system's status.

Smart Network Management (SNM $^{\text{TM}}$) provides status information of all transmission parameters.

Ordering information

Model	Description	Fiber	Wavelengths	Budget	Housing	Managed
OCTA 4010 TX OCTA 4010 RX	8-channel digital video multiplexer 8-channel digital video demultiplexer	MM	1310 nm	18 dB¹	rack-mount	SNM
OCTA 4050 TX OCTA 4050 RX	8-channel digital video multiplexer 8-channel digital video demultiplexer	SM	1310 nm	20 dB	rack-mount	SNM
OCTA xxxx /SA	Stand-alone version of the OCTA models					

 $^{^{1}}$): Due to fiber bandwidth the maximum transmission distance may be limited to 3.5 km. For 50/125 μ fiber subtract 4 dB.

Applications



9-bit

Technical Specifications

Video

Number of channels

PAL/NTSC Video format In-/output level 1 Vpp (\pm 3 dB) DC restore (clamping) On or off (selectable)

Bandwidth (-3 dB) 6 MHz Sampling resolution 9-bit

Sampling rate 27 Msamples/s, 2x over-sampled

Differential gain < 2% Differential phase < 1° Group delay < 33 ns

SNR > 63 dB (weighted)

BNC 75 Ω (gold-plated centerpin) Connector type

Powering

Power consumption < 6 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 Full-duplex link (green), local (red) or remote synchronization error (yellow)

Network Management SNM™ compatible

SNM™ variables PS Voltages, module temperature, module status, optical levels, configuration, etc.

Environmental

 $-40 \text{ to } +74^{\circ}\text{C}$ Operating temperature

Relative humidity <95% (no condensation)

MTBF >250,000 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 (hxwxd) 128 x 71 x 190 mm

900 g Weight (approximately)

Rack-mount or stand-alone Housing

Optical	OCTA 4010 TX-RX	OCTA 4050 TX-RX	
Fiber type	1× MM	1x SM	
System budget	> 17 dB	> 19 dB	
Min. link loss	O dB	O dB	
Output wavelength	1310	1310	
Output power	-4 dBm	-4 dBm	
Input sensitivity	-27 dBm	-24 dBm	
Connector type	SC	SC	









