#### Features

- Eight-channel digital video multiplexer
- Uncompressed 10-bit digital video
- No signal degradation over long distances
- Adjustment-free operation
- Compact stand-alone and rack-mount versions



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#### Octa 4000

## Eight-channel digital video

#### **Description**

Offering eight video channels and long distance transmission, the Octa 4000 provides a compact and versatile multiplexing solution which can be effectively deployed in almost any CCTV application.

The multiplexer simultaneously transmits eight camera signals over one single-mode or multimode optical fiber. Uncompressed 10-bit digitising, oversampling, and digital filtering ensure a very high video channel transmission performance, exceeding the requirements of the EIA RS-250C medium-haul specifications.

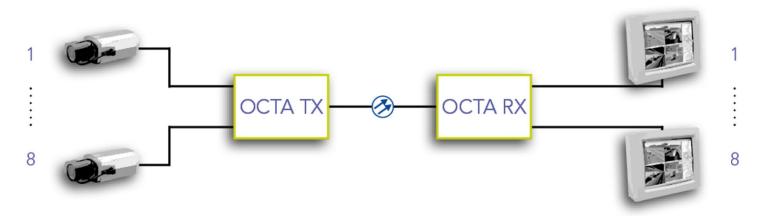
The wide operating temperature range of these units makes the Octa 4000 series well-suited for environmentally harsh applications such as traffic monitoring, video surveillance in city centers, and airport security.

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). LED indicators provide an instant overview of the system status, including power and system faults.



## Technical Specifications Octa 4000





| Video                 |  |
|-----------------------|--|
| Number of channels    | 8  |
| Video format          | NTSC, PAL                                |
| Input/output level    | 1 Vpp (±3 dB)                            |
| Bandwidth (-3 dB)     | 6 MHz                                    |
| Sampling resolution   | 10-bit                                   |
| Video sampling rate   | 56 MHz                                   |
| Differential gain     | <2%                                      |
| Differential phase    | <1°                                      |
| Group delay           | <20 ns                                   |
| Signal-to-noise ratio | >63 dBw                                  |
| Connector type        | 75 $\Omega$ BNC (gold-plated center pin) |

| Management            |  |
|-----------------------|--|
| LED status indicators |  |
| DC                    | Power-on indicator (green)   |
| NV                    | No video on input or output (red)  |
| Sync                  | Full-duplex link (green), local (red) or remote (yellow) synchronisation error |

| Environmental                     |  |
|-----------------------------------|--|
| Operating temperature             | -40 °C to +74 °C (-40 °F to +165 °F)   |
| Storage temperature               | -55 °C to +85 °C (-67 °F to +185 °F)   |
| Relative humidity                 | <95% with no condensation  |
| MTBF (mean time between failures) | >100,000 hours   |
| Safety and EMC                    | IEC/EN 60950-1, IEC/EN 60825, IEC/EN 61000, EN 50130-4, EN 50081-1,<br>EN 55022, FCC part 15 |

| Powering                |                                       |
|-------------------------|---------------------------------------|
| Power consumption       | <12 W (2 A inrush)                    |
| Rack-mount units        | MC 10 and MC 11 power supply cabinets |
| Stand-alone units (/SA) | 11 to 15 Vdc (PSA-UN12DC or PSR-12DC) |

### **Technical Specifications** Octa 4000

| Mechanical             |  |  |
|------------------------|--|--|
| Dimensions (h x w x d) | 128 x 71 x 190 mm (5.0 x 2.8 x 7.5 in) |  |
| Weight                 | 900 g (30.4 oz)                        |  |
| Housing                | Rack-mount or stand-alone              |  |

| Optical                  |                           |                           |
|--------------------------|---------------------------|---------------------------|
|                          | <b>Octa 4010</b><br>TX/RX | <b>Octa 4050</b><br>TX/RX |
| Fiber type               | 1x MM (62.5 μM)           | 1x SM (9 μM)              |
| Output wavelength        | 1310 nm                   | 1310 nm                   |
| System link budget       | 20 dB                     | 18 dB                     |
| Link length              | 2 km*                     | 40 km                     |
| Minimum link loss        | 0 dBm                     | 0 dBm                     |
| Output power             | >-4 dBm                   | >-4 dBm                   |
| Input sensitivity        | -24 dBm                   | -22 dBm                   |
| Connector type           | ST (others optional)      | SC (others optional)      |
| *Range may be limited by | by fiber bandwidth        |                           |

| *Range | may h   | e limited   | hy f | iher | bandwidth |
|--------|---------|-------------|------|------|-----------|
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| Ordering information |  |            |
|----------------------|--|------------|
| Models               | Description                              | Fiber type |
| Octa 4010 TX         | 8-channel digital video multiplexer      | 1x MM      |
| Octa 4010 RX         | 8-channel digital video demultiplexer    | 1x MM      |
| Octa 4050 TX         | 8-channel digital video multiplexer      | 1x SM      |
| Octa 4050 RX         | 8-channel digital video demultiplexer    | 1x SM      |
| Octa 40XX/SA         | Stand-alone version of rack-mount models |            |
|                      |  |            |





