

## Features

- Four-channel digital video multiplexer with one data channel
- Uncompressed 10-bit digital video
- One full-duplex data channel
- No signal degradation over long distances
- Adjustment-free operation
- Compact stand-alone and rack-mount versions



## Tetra 4200

### Four-channel digital video, data

#### Description

Offering a compact and versatile combination of video and data, the Tetra 4200 can be effectively deployed in almost any CCTV application.

The multiplexer simultaneously transmits four camera signals and one bidirectional data signal 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.

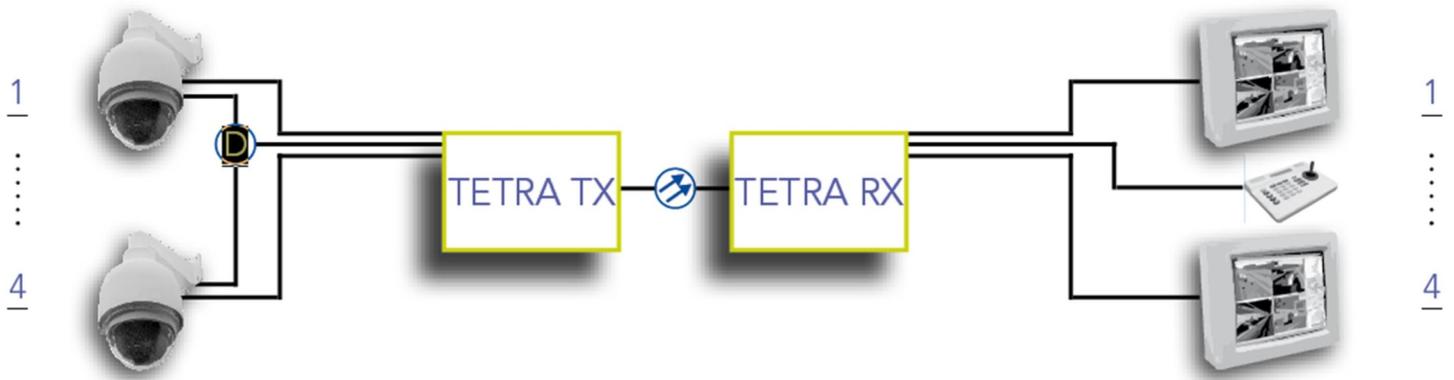
The bidirectional RS-485/422 data interface supports PTZ data from all types of camera interfaces including RS-485, TTY, Manchester, Bi-phase, and SensorNet.

The wide operating temperature range of these units makes the Tetra 4200 series well-suited for environmentally harsh applications such as traffic monitoring, video surveillance in city centers, and airport security.

The Tetra 4200 comes as a single Eurocard cassette, suitable for an MC 10 or MC 11 power supply cabinet or as a stand-alone unit (ISA). LED indicators provide an instant overview of the system status, including power and system faults.

# Technical Specifications

## Tetra 4200



### Video

Number of channels	4
Video format	NTSC, PAL
Input/output level	1 V <sub>pp</sub> (±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 Ω BNC (gold-plated center pin)

### Data

Number of channels	1 (full-duplex)
Data interfaces	1x RS-232, RS-422 or RS-485 (2- or 4-wire)
Data format	Asynchronous, serial
Data rate	
RS-422 or RS-485	DC to 256 kbit/s
RS-232	DC to 115.2 kbits
Sampling rate	3 MSamples/s
Connector type	5-pin screw terminal

### 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

# Technical Specifications

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### 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, EN 55022, FCC part 15

### Powering

Power consumption	<2.6 W
Rack-mount units	MC 10 and MC 11 power supply cabinets
Stand-alone units (/SA)	12 to 15 Vdc (PSA-UN12DC or PSR-12DC)

### Mechanical

Dimensions (h x w x d)	128 x 35 x 190mm (5.0 x 1.4 x 7.5 in)
Weight	490 g (16.6 oz)
Housing	Rack-mount or stand-alone

### Optical

	<b>Tetra 4210</b> TX/RX	<b>Tetra 4250</b> TX/RX
Fiber type	1x MM (62.5 μm)	1x SM (9 μm)
Output wavelength	1310 nm / 1550 nm	1310 nm / 1550 nm
System link budget	18 dB at 1310 nm	24 dB at 1310 nm
Link length	4 km*	52 km
Minimum link loss	0 dB	0 dB
Output power	>-4 dBm / -7dBm	>-4 dBm / -7 dBm
Input sensitivity	-22 dBm / -22 dBm	-25 dBm / -28 dBm
Connector type	ST (others optional)	SC (others optional)

\*Range may be limited by fiber bandwidth

### Ordering information

Models	Description	Fiber type
Tetra 4210 TX	4-channel digital video multiplexer with 2-way data	1x MM
Tetra 4210 RX	4-channel digital video demultiplexer with 2-way data	1x MM
Tetra 4250 TX	4-channel digital video multiplexer with 2-way data	1x SM
Tetra 4250 RX	4-channel digital video demultiplexer with 2-way data	1x SM
Tetra 42XX/SA	Stand-alone version of rack-mount models	



The quality management system used in the development, production, sales, and support of this product is ISO 9001:2008 certified by LRQA.

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