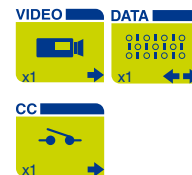


# Up-the-Fiber™ 4200 Bilinx™

# Digital video transmitter with Bosch Bilinx™ protocol

## Features

- High-quality 9-bit video  $\geq 63$  dBw SNR
- Bosch Bilinx™ up-the-coax protocol
- Miniature transmitters <2x2x1 inch
- High-density receivers
- 12 VDC and 24 VAC direct powering
- Alarm contact
- Unique time-saving connection and configuration



## Description

On an extremely small footprint, Siquira's fiber optic Up-the-Fiber™ series provides high-quality, 9-bit digitized video transmission supporting Bosch's Bilinx™ protocol over extended distances. UTF 4200 exceeds the normally limited Bilinx™ protocol using digital processing and intelligent features.

The UTF 4200 uses either one single-mode or one or two multimode optical fibers and also features an isolated contact closure output to transport alarms from the camera (anti-tamper or door contact).

The miniature stand-alone transmitters are suitable to be used within outdoor camera housings or camera connection boxes. UTF 4200 receivers are also available as stand-alone units (/SA).

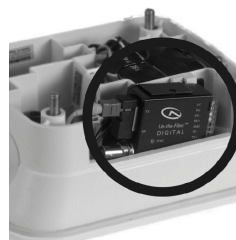
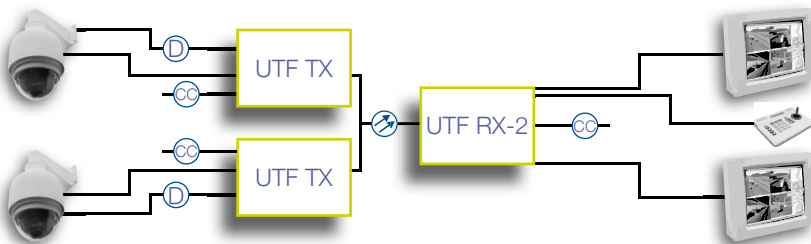
## Ordering Information

Models	Description	Fiber Type
UTF 4200 TX-MSA/Bilinx	Miniature digital video transmitter with CC for Bosch Bilinx™	2x MM
UTF 4200 RX/Bilinx	Digital video receiver with CC for Bosch Bilinx™	2x MM
UTF 4200 RX-2/Bilinx	Dual digital video receiver with CC for Bosch Bilinx™	2x MM
UTF 4210 TX-MSA/Bilinx	Miniature digital video transmitter with CC for Bosch Bilinx™	1x MM
UTF 4210 RX/Bilinx	Digital video receiver with CC for Bosch Bilinx™	1x MM
UTF 4210 RX-2/Bilinx	Dual digital video receiver with CC for Bosch Bilinx™	1x MM
UTF 4250 TX-MSA/Bilinx	Miniature digital video transmitter with CC for Bosch Bilinx™	1x SM
UTF 4250 RX/Bilinx	Digital video receiver with CC for Bosch Bilinx™	1x SM
UTF 4250 RX-2/Bilinx	Dual digital video receiver with CC for Bosch Bilinx™	1x SM
UTF 42xx/Bilinx /SA	Stand-alone version of rack-mount models	
In-dome mounting bracket	Bracket to mount a UTF TX-MSA inside a Bosch AutoDome® or EnviroDome®	

# Up-the-Fiber™ 4200 Bilinx™

## Technical specifications

# Digital video transmitter with Bosch Bilinx™ protocol



Bosch Dome Camera Application with an In-Dome Mounting Bracket

### Video

Number of channels	1
Video format	NTSC, PAL, SECAM
Input/output level	1 Vpp (±3 dB)
Bandwidth (-3 dB)	6 MHz
Sampling resolution	9-bit effective
Group delay	<20 ns
Differential gain	<2%
Differential phase	<1°
SNR	>63 dB (weighted)
Connector type	BNC 75Ω (gold-plated center pin)

### Data

Number of channels	1 (full-duplex)
Data interfaces	Up-the-coax
Interface support	Bosch Bilinx™

### Management

LED status indicators	
TX models	Power-on (green); local synchronization error (red); remote synchronization error (yellow)
RX models	NV: No video on input or output (red) SYNC: Operational link (green), local synchronization error (red); remote synchronization error (yellow)
Network Management	SNM™ compatible
SNM™ variables	PS voltages, module temperature, module status, configuration, etc.

### Environmental

Operating temperature	-40° C to +74° C (-40° F to +165.2° F)
Storage temperature	-55° C to +85° C (-67° F to +185° F)
Relative humidity	<95% as long as there is no condensation.
MTBF	>250,000h
Safety and EMC	IEC/EN 60950-1, IEC/EN 60825, IEC/EN 61000, EN 50130-4, EN 50081-1, EN 55022, FCC part 15

### Physical

Stand-alone	
Dimensions (h x w x d)	45 x 45 x 25 mm (1.77 x 1.77 x 0.98 in.)
Weight (approx.)	250g (8.81 oz.)
Rack-mount	
Dimensions (h x w x d)	128 x 71 x 190 mm (5 x 2.8 x 7.48 in.)
Weight (approx.)	450g (15.87 oz.)

### Contact Closure

Number of channels	1
Input (TX)	+3.3V pull-up, 2.2 kΩ
Threshold	1.4V
Output (RX)	Fail-safe, potential-free; 100 mA/50V

### Power Requirements

Power consumption	<3W
Rack-mount units	MC 10 and MC 11 power supply cabinets
Stand-alone option (/SA)	12 VDC (PSA-UN12DC with Ferrules or PSR-12 DC)
Miniature stand-alone transmitters	12 VDC (PSA-UN12DC with Ferrules or PSR-12 DC) or 24 VAC

Optical	UTF 4200 TX/RX	UTF 4210 TX/RX	UTF 4250 TX/RX
Fiber type	2x MM (62.5)	1x MM (62.5)	1x SM (09)
System link budget	23 dB <sup>2</sup>	23 dB	23 dB
Link length	6 km <sup>1</sup>	6 km <sup>1</sup>	46 km
Minimum Link Loss	0 dBm	0 dBm	9 dBm
Output power	>-12 dBm <sup>2</sup>	>-12 dBm / >-12 dBm	>-12 dBm / >-12 dBm
Input sensitivity	-35 dBm	-35 dBm / -35 dBm	-35 dBm / -35 dBm
Transm. wavelength	1300 nm	1310 nm / 1550 nm	1310/1550 nm
Connector type	SC	SC	SC

<sup>1</sup> For 50/125 μm fiber, subtract 4 dB.

<sup>2</sup> Distance limited due to fiber bandwidth.



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

© Siqura Version: August 2011 V2.0 (Second Edition) – Subject to modification



member of the TKH Group