

## Features

- High-quality 9-bit video  $\geq 63$  dBw SNR
- High-speed bidirectional data channel supporting all major PTZ/dome cameras
- EasyC-s™ for unique time-saving PTZ connection and configuration
- Optical connection over one or two single-mode fibers
- Miniature transmitters (45 x 45 x 25 mm)
- Transmitter 12 Vdc and 24 Vac direct powering
- Dual receivers for high-density receiver nodes
- Alarm contact (CC)



## Up-the-Fiber™ 4200 SM

### Miniature digital video transmitter, data, CC

#### Description

On an extremely small footprint, Siqura's Up-the-Fiber™ (UTF) digital line of equipment provides high-quality, 9-bit digitised video transmission with bidirectional data at the highest quality/price ratio. The module also offers a one-way isolated alarm contact closure channel to transport alarms (anti-tamper or door contact) from the camera to the central site. UTF 4200 SM systems work with one or two single-mode optical fibers.

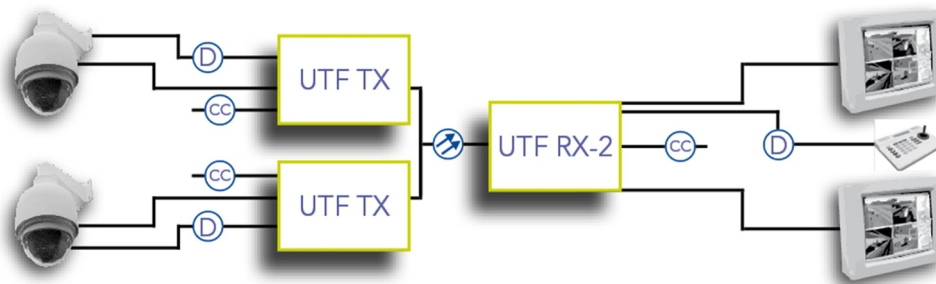
Up-the-Fiber™ 4200 series receivers can handle one or two video, data, and CC channels. The UTF module supports EasyC-s. With EasyC-s, a group of receivers uses only one external data connection, simplifying system implementation and maintenance. The data port only needs to be configured on the receiver; the transmitter automatically follows.

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. UTF receivers are also available as stand-alone units (/SA).

Their wide operating temperature range makes the compact, stand-alone transmitters suitable for use in outdoor camera housings and camera connection boxes. All miniature stand-alone models can be powered by the camera power supply (12 Vdc or 24 Vac). A PSR-12DC is recommended in case of extreme environmental conditions.

# Technical Specifications

## Up-the-Fiber™ 4200 SM



### Video

Number of channels	1
Video format	NTSC, PAL, SECAM
Input/output level	1 Vpp ( $\pm 3$ dB)
Bandwidth (-3 dB)	6 MHz
Sampling resolution	9-bit effective
Group delay	<20 ns
Differential phase	<1.0°
Differential gain	<2.0%
Signal-to-noise ratio	>63 dBw
Connector type	75 $\Omega$ BNC (gold-plated center pin)

### Data

Number of channels	1 (full duplex)
Data interfaces	RS-422/485 (2- or 4-wire)
Interface support	Current loop, TTL, TTY, Manchester, Bi-phase
Data format	Asynchronous, serial
Data rate	DC to 230 kb/s
Connector type	6-pin screw terminal
EasyC-s™	Backplane data bus wiring and single-point configuring (RX)

### Contact closures

Number of channels	1
Input (TX)	+3.3 V pull-up, 2.2 k $\Omega$
Threshold	1.4 V
Output (RX)	Fail-safe, isolated; 100 mA / 50 V

### Management

LED status indicators	
TX models	Power on (green), local synchronisation error (red), remote synchronisation error (yellow)
RX models	NV: no video on output (red) Sync: operational link (green), local synchronisation error (red), remote synchronisation error (yellow)

# Technical Specifications

## Up-the-Fiber™ 4200 SM

### 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)	>250,000 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, UL

### Powering

Power consumption	<3 W
Rack-mount units	MC 10 and MC 11 power supply cabinets
Stand-alone units (/SA)	12 Vdc (PSA-UN12DC with ferrules or PSR-12DC)
Miniature stand-alone transmitters	11 to 40 Vdc (PSA-UN12DC with ferrules or PSR-12DC) or 20 to 30 Vac

### Mechanical

#### Stand-alone

Dimensions (h x w x d)	45 x 45 x 25 mm (1.8 x 1.8 x 1.0 in)
Weight	250 g (8.8 oz)

#### Rack-mount units

Dimensions (h x w x d)	128 x 35 x 190 mm (5 x 1.4 x 7.5 in)
Weight	450 g (15.9 oz)

### Optical

	UTF 4240 TX/RX	UTF 4250 TX/RX
Fiber type	2x SM (9 µm)	1x SM (9 µm)
Output wavelength	1310 nm	1310 nm / 1550 nm
System link budget	26 dB	19 dB / 19 dB
Link length	55 km	40 km
Minimum link loss	2 dB	0 dB
Output power	> -8 dBm	> -15 dBm / > -15 dBm
Input sensitivity	-34 dBm	-34 dBm / -34 dBm
Connector type	SC	SC

### Ordering information

Models	Description	Fiber type
UTF 4240 TX-MSA	Miniature digital video transmitter with CC and 2-way data	2x SM
UTF 4240 RX	Digital video receiver with CC and 2-way data	2x SM
UTF 4240 RX-2	Dual digital video receiver with CC and 2-way data	4x SM
UTF 4250 TX-MSA	Miniature digital video transmitter with CC and 2-way data	1x SM
UTF 4250 RX	Digital video receiver with CC and 2-way data	1x SM
UTF 4250 RX-2	Dual digital video receiver with CC and 2-way data	2x SM
UTF 4250 TX /Bosch	Video transmitter for in-dome solutions: Bosch AutoDome™ or EnviroDome™	1x SM
UTF 42xx /SA	Stand-alone version of rack-mount models	



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

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