

Features

- High quality 9-bit video ≥ 63 dBw SNR over one or two single mode fibers
- EasyC-s™: time-saving PTZ connection and configuration
- Miniature transmitters $2 \times 2 \times 1$ inch
- High density receivers
- 12 VDC and 24 VAC direct powering
- High-speed data channel supporting all major PTZ/dome
- cameras
- Alarm contact



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 digitized video transmission with bidirectional data at an exceptionally low price. UTF systems work with one or two single-mode optical fibers.

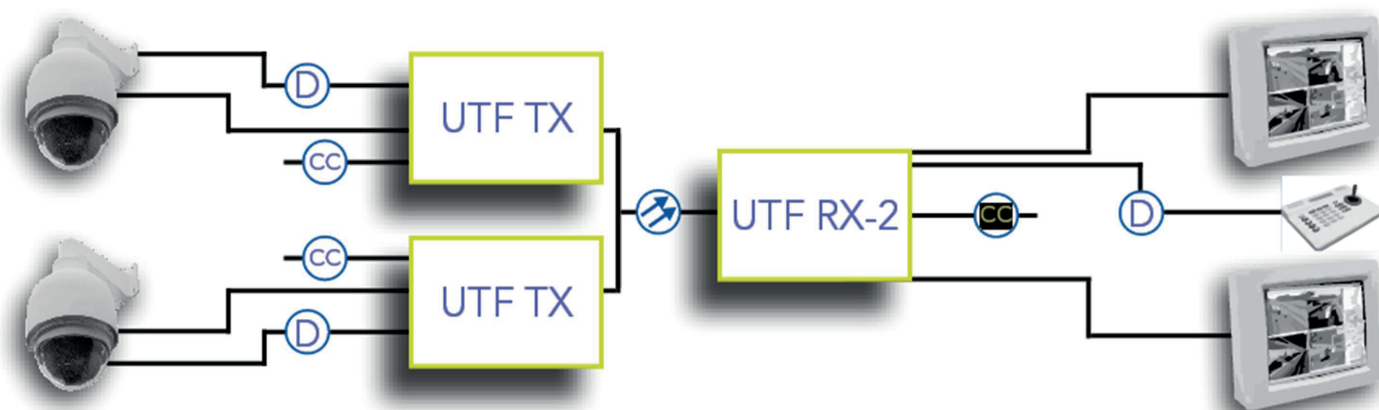
Up-the-Fiber receivers can handle one or two video, data, or CC channels. The UTF module supports EasyC-s. With EasyC-s, a group of receivers uses only one external data connection, simplifying system implementation and maintenance. Also, to configure the data port, only the receiver has to be set; the 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. In addition, the module offers an isolated alarm contact closure output such as door contacts, anti-tamper contacts, etc.

Their wide operating temperature range makes these compact, stand-alone transmitters suitable for use in outdoor camera housings and camera connection boxes, for example. UTF receivers are also available as stand-alone units.

Technical Specifications

UTF 4200 SM Miniature digital video transmitter, data, CC



Video

Number of channels	1
Video format	NTSC, PAL, SECAM
Input/output level	1 V _{pp} (±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	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 Closure

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

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.

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Powering

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

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

Mechanical

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.)

Optical

Optical	UTF 4240 TX/RX	UTF 4250 TX/RX
Fiber type	2x SM (09)	1x SM (09)
System link budget	23 dB	23 dB
Link length	46 km	46 km
Minimum link loss	0 dBm	9 dBm
Output power	>-12 dBm	>-12 dBm / >-12 dBm
Input sensitivity	-32 dBm	-35 dBm / -35 dBm
Transm. wavelength	1300 nm	1310/1550 nm
Connector type	SC	SC

Ordering Information

Models	Description	Fiber Type
UTF 4240 TX-MSA	Miniature digital video transmitter with CC and 2-way data	2xSM
UTF 4240 RX	Digital video receiver with CC and 2-way data	2xSM
UTF 4240 RX-2	Dual digital video receiver with CC and 2-way data	2xSM
UTF 4250 TX-MSA	Miniature digital video transmitter with CC and 2-way data	1xSM
UTF 4250 RX	Digital video receiver with CC and 2-way data	1xSM
UTF 4250 RX-2	Dual digital video receiver with CC and 2-way data	1xSM
UTF 4250 TX /Bosch	Video transmitter for in-dome solutions: Bosch Autodome® or EnviroDome®	
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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