Up-the-Fiber™ 4200 MM

Miniature digital video transmitter, data, CC

Features

- High quality 9-bit video ≥63 dBw SNR over any type of fiber
- Miniature transmitters <2x2x1 inch
- High density receivers
- DC and AC camera powering
- Alarm contact

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 multimode 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. 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, SensorNet, etc. In addition, the module offers an isolated alarm contact closure output such as door contacts, anti-tamper contacts, etc.
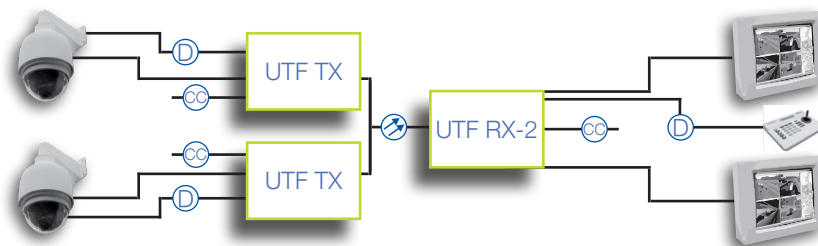
Their wide operating temperature range makes the compact, stand-alone transmitters suitable for use in outdoor camera housings and camera connection boxes, for example. UTF receivers are also available as stand-alone units.

Ordering Information

Model	Description	Fiber Type
UTF 4200 TX-MSA	Miniature digital video transmitter with CC and 2-way data	2xMM
UTF 4200 RX	Digital video receiver with CC and 2-way data	2xMM
UTF 4200 RX-2	Dual digital video receiver with CC and 2-way data	4xMM
UTF 4210 TX-MSA	Miniature digital video transmitter with CC and 2-way data	1xMM
UTF 4210 RX	Digital video receiver with CC and 2-way data	1xMM
UTF 4210 RX-2	Dual digital video receiver with CC and 2-way data	2xMM
UTF 4210 TX /Bosch	Video transmitter for in-dome solutions: Bosch AutoDome™ or EnviroDome™	1xMM
UTF 42xx /SA	Stand-alone version of rack-mount models	

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Video

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)

Contact Closure

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

Management

LED status indicators (RX only)	
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.

Powering

Power consumption	<3W
Rack-mount units	MC 10 and MC 11 power supply cabinets
Stand-alone option (/SA)	12 VDC (PSA-12 DC, PSA-12 DC/25 or PSR-12-DC)
Miniature stand-alone trans-mitters	12 VDC (PSA-12 DC, PSA-12 DC/25 or PSR-12 DC) or 24 VAC

Environmental

Operating temperature	
Storage temperature	-40° C to +74° C (-40° F to +165.2° F)
Relative humidity	-55° C to +85° C (-67° F to +185° F)
MTBF	<95% as long as there is no condensation
Safety and EMC	>250,000h

Mechanical

Dimensions (h x w x d)	IEC/EN 60950-1, IEC/EN 60825, IEC/EN 61000, EN 50130-4, EN 50081-1, EN 55022, FCC part 15
Stand-alone	
Rack-Mount	
Weight (approx.)	
Stand-alone	45 x 45 x 25 mm (1.77 x 1.77 x 0.98 in.)
Rack-Mount	128 x 71 x 190 mm (5 x 2.8 x 7.48 in.)
	250g (8.81 oz.)
	450g (15.87 oz.)

Optical	UTF 4200 TX/RX	UTF 4210 TX/RX
Fiber type	2x MM (62.5)	1x MM (62.5)
System link budget	15 dB[1]	23 dB[1]
Link length	6 km[2]	6 km[2]
Minimum Link Loss	0 dB	0 dB
Output power	>-17 dBm[1]	>-12 dBm[1]
Input sensitivity	-32 dBm	-35 dBm
Transm. wavelength	1300 nm	1310/1550 nm
Connector type	SC	SC

[1] For 50/125 µm fiber, subtract 4 dB.
[2] Limited distance due to fiber bandwidth

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