

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, Siquira's Up-the-Fiber™ digital line of equipment provides high quality, 9-bit digitized video transmission at an exceptionally low price. Up-the-Fiber™ 4000 series receivers can handle one or two video/CC channels. The Up-the-Fiber™ system also provides an isolated alarm contact closure output (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. UTF receivers are also available as stand-alone units. All miniature stand-alone models can be powered by the camera power supply (12 VDC or 24 VAC); a PSR-12 DC is recommended in case of extreme environmental conditions.

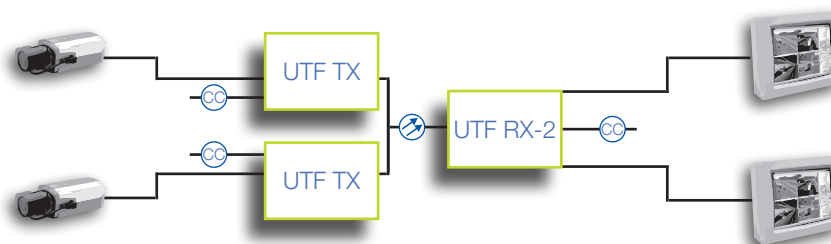
Ordering Information

Model	Description	Fiber Type
UTF 4000 RX	Digital video receiver with alarm contact	1xMM
UTF 4000 RX-2	Dual digital video receiver with alarm contact	2xMM
UTF 4000 TX-MSA	Miniature digital video transmitter with alarm contact	1xMM
UTF 4040 RX	Digital video receiver with alarm contact	1xSM
UTF 4040 RX-2	Dual digital video receiver with alarm contact	2xSM
UTF 4040 TX-MSA	Miniature digital video transmitter with alarm contact	1xSM
UTF 40xx /SA	Stand-alone version of rack-mount models	

Up-the-Fiber™ 4000

Technical Specification

Miniature digital video transmitter, CC



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

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 transmitters	12 VDC or 24 VAC (PSA-12 DC, PSA-12 DC/25 or PSR-12 DC)

Management

LED status indicators (RX only)	Power-on (green); local synchronization error (red); remote synchronization error (yellow)
TX models:	
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

Mechanical

Dimensions (h x w x d)	
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.)
Weight (approx.)	
Stand-alone	250g (8.81 oz.)
Rack-Mount	450g (15.87 oz.)

Optical	UTF 4000 TX/RX	UTF 4040 TX/RX
Fiber type	MM (62.5)	SM (9)
System link budget	23 dB ¹	23 dB ¹
Link length	6 km ²	46 km ²
Minimum Link Loss	0 dB	0 dB
Output power	>-12 dBm ¹	>-12 dBm ¹
Input sensitivity	-36 dBm	-36 dBm
Transm. wavelength	1310 nm	1310 nm
Connector type	SC	SC

¹ For 50/125 μm fiber, subtract 4 dB.

² Limited distance 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.

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