

Features

- High-quality 9-bit video ≥ 63 dBw SNR
- Optical connection over one single-mode or multimode fiber
- 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™ 4000

Miniature digital video transmitter, CC

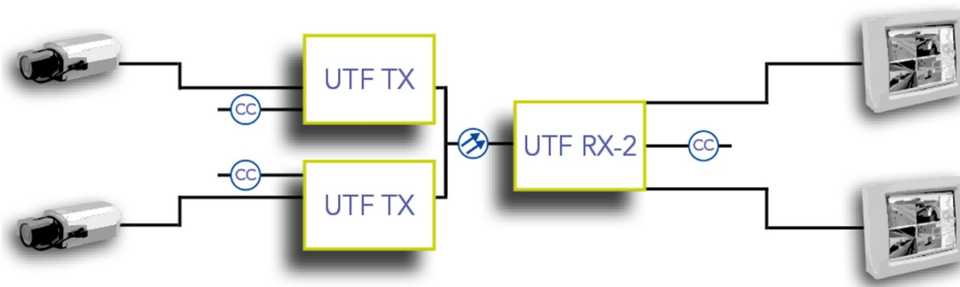
Description

On an extremely small footprint, Siqura's Up-the-Fiber™ (UTF) digital line of equipment provides high-quality, 9-bit digitised video transmission 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 4000 systems work with one single-mode or multimode fiber.

Up-the-Fiber™ 4000 series receivers can handle one or two video/CC channels. 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™ 4000



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 phase	<1.0°
Differential gain	<2.0%
Signal-to-noise ratio	>63 dBw
Connector type	75 Ω BNC (gold-plated center pin)

Contact closures

Number of channels	1
Input (TX)	+3.3 V pull-up, 2.2 kΩ
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)
Network management	SNM™ compatible (RX) (rack-mount units only)
SNM™ variables	PS voltages, module temperature, module status, configuration, etc.

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

Technical Specifications

Up-the-Fiber™ 4000

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 4000 TX/RX	UTF 4040 TX/RX
Fiber type	MM (62.5 μm)	SM (9 μm)
Output wavelength	1310 nm	1310 nm
System link budget	15 dB	23 dB
Link length	6 km*	50 km
Minimum link loss	0 dB	0 dB
Output power	> -15 dBm	> -11 dBm
Input sensitivity	< -30 dBm	< -34 dBm
Connector type	SC	SC

*Range may be limited by fiber bandwidth.

Ordering information

Models	Description	Fiber type
UTF 4000 RX	Digital video receiver with CC	1x MM
UTF 4000 RX-2	Dual digital video receiver with CC	2x MM
UTF 4000 TX-MSA	Miniature digital video transmitter with CC	1x MM
UTF 4040 RX	Digital video receiver with CC	1x SM
UTF 4040 RX-2	Dual digital video receiver with CC	2x SM
UTF 4040 TX-MSA	Miniature digital video transmitter with CC	1x SM
UTF 40xx/ 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.

© Siquira B.V. 2013 - Version 1.2 - Subject to modification.

