



UTF 4200 MULTIMODE



- High-quality 9-bits video (SNR> 63 dB) over any one or two multimode fibers
- Miniature transmitters < 2x2x1 inch
- High-density receivers
- 12 Vdc and 24 Vac direct powering
- High-speed data channel supporting all major PTZ/dome camera's
- Alarm contact
- Unique time-saving PTZ connection and configuration (EasyC-s™)



Description

On an extremely small footprint, NKF's *Up-the-Fiber*[™] digital line 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 fibres. *Up-the-Fiber*[™] receivers can handle one or two video/data/CC channels.

The UTF module supports EasyC-s $^{\text{TM}}$. With EasyC-s $^{\text{TM}}$ a group of receivers needs only one (!) external data connection,

simplifying system implementation and maintenance. The data port needs only to be configured on the receiver; the transmitter automatically follows. The bidirectional RS-485/422 data interface supports PTZ data of all types of camera interfaces (RS-485, TTY, Manchester, biphase, SensorNet, etc.). In addition, the module offers an potential-free alarm contact for e.g. Door contacts, anti-tamper contacts, etc.

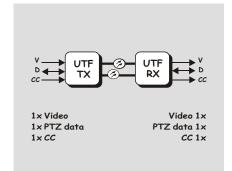
Their wide operating temperature range makes the compact, stand-alone transmitters suitable for use within for instance outdoor camera housings and camera connection boxes. UTF receivers are also available as stand-alone units. The UTF receivers are managed with NKF's Smart Network Management (SNM™).

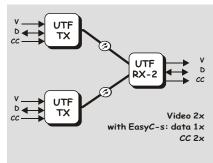
Ordering information

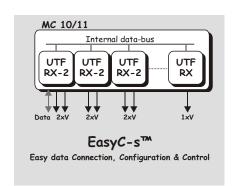
Model	Description	Fibre type	Budget	Housing	Managed
UTF 4200 TX-MSA	Miniature digital video transmitter with CC and 2-way data	2x MM	15 dB [°]	stand-alone	SNM
UTF 4200 RX	Digital video receiver with CC and 2-way data	2x MM	15 dB [*]	rack-mount	SNM
UTF 4200 RX-2	Dual digital video receiver with CC and 2-way data	2x MM	15 dB [*]	rack-mount	SNM
UTF 4210 TX-MSA	Miniature digital video transmitter with CC and 2-way data	1x MM	23 dB [*]	stand-alone	SNM
UTF 4210 TX	Digital video transmitter with CC and 2-way data	1x MM	23 dB [*]	rack-mount	SNM
UTF 4210 TX-2	Dual digital video transmitter with CC and 2-way data	1x MM	23 dB [*]	rack-mount	SNM
UTF 4210 RX	Digital video receiver with CC and 2-way data	1x MM	23 dB [*]	rack-mount	SNM
UTF 4210 RX-2	Dual digital video receiver with CC and 2-way data	1x MM	23 dB [*]	rack-mount	SNM
		-			
UTF 42xx /SA	Stand-alone version of rack-mount models	-	-	stand-alone	SNM

⁾ For $50/125\mu$ fibre subtract 4 dB. The maximum distance may be limited to 6 km or less due to dispersion.

Applications







Technical Specifications

UTF 4200 MULTIMODE

Video Number of channels

PAL/SECAM/NTSC Video format In-/output level 1 Vpp (\pm 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)

BNC 75 (gold plated center-pin) Connector type

Powering

Power consumption < 3 W MC 10 and MC 11 cabinets Rack-mount units

Stand-alone option (/SA) 12 Vdc

Miniature standalone transmitters 12 Vdc or 24 Vac

Contact Closure

Number of channels

Data interfaces

Data format

Connector type

Data rate

EasyC-s™

Interface support

Data

Number of channels

+3.3 V pull-up, 2.2 kInput (TX)

Threshold 1.4 V

Fail-safe, pot.-free; 100 mA/50V Output (RX)

1(full duplex)

RS-422/485 (2- or 4 wire)

Backplane databus wiring and

single-point configuring (RX)

Current loop, TTL, TTY,

Manchester, Biphase

Asynchronous, serial DC to 230 kb/s

6-p screw terminal

Management

LED status indicators

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

NV: No video on in- 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 to +74°C

<95% (no condensation) Relative humidity

MTBF > 250,000 h

Safety & EMC IEC/EN 60950-1, IEC/EN 60825, IEC/EN 61000

EN 50130-4, EN 50081-1, EN 55022, FCC part 15

Rack-mount

Mechanical Stand-alone

Dimensions (hxwxd) 45 x 45 x 25 mm 128 x 71 x 190 mm

Weight (approx.) 250 g 450 g



Optical	UTF 4200 TX - RX	TX UT	F 4210 - RX	
Fibre type	2x MM	1	x MM	
System budget	15 dB	2	23 dB	
Min. link loss	0 dB	0 dB		
Output power	>-17 dBm	>-12 dBm	>-12 dBm	
Output wavelength	1300 nm	1310 nm	1550 nm	
Input sensitivity	-32 dBm	-35 dBm	-35 dBm	
Connector type	SC		SC	







