FireWire Transceiver

2010-03

Signal Extender

FireWire 800

FireWire-800 Transceiver   The system

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The FireWire-800 Transceiver system extends signals in accordance with protocol IEEE1394b. It enables the transmission via fibre optic (2 fibres) over up to 500 m.

The system consists of two main components; the computer module (transmitter) and the user module (receiver). The modules are connected via two fibre optics.

The FireWire-800 Transceiver computer and user modules transmit bidirectional signals in accordance with protocol IEEE1394b-2002 - also downward-compatible with IEEE 1394a-2000 and -1995.

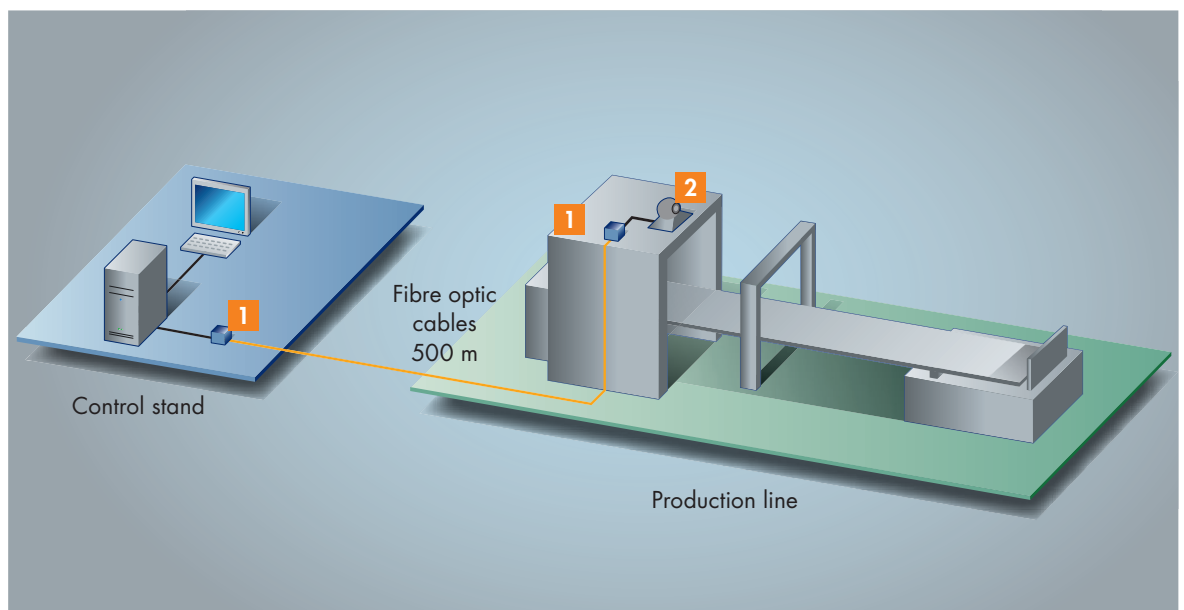**The computer and user modules are units with the same design and can be used interchangeably.**

FireWire-800 Transceiver

Front and rear view

Article no.
A199 0004

System diagram:

1 FireWire-800 Transceiver
2 Industrial camera

Fibre optic cables 500 m

Control stand

Production line

Example: FireWire extension from machine control stand to production line for visual process monitoring
The production line is monitored using an industrial camera. The FireWire-800 transceiver extends the camera data across a distance of 500 m via fibre optic cable to the control stand. At the control stand workplace the image data is monitored and processed by computer. The operator and computer do not need to be exposed to the production environment. The fibre optic transmission is not susceptible to interference from the environment.

FireWire-800 Transceiver The system + order list

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Technical data			FireWire-800 Transceiver
Computer per system			1
Type of cable connection	Computer module – user module		dedicated fibre optic connection
Transmission length (max.)	Computer module – user module		500 m (50/125 µm)
Transmission cable type			2 multimode fibres (50/125 µm)
Power supply	Main	Type	external power pack
		Connection	1 x hollow socket
		Power supply	+12VDC/1.0A
Casing	Material		Metal
	Dimensions	W x H x D desktop	101 x 24 x 91 mm
Weight			approx. 0.3 kg
Operating environment			
	Temperature		+0 to +50 °C
	Air humidity		< 80 %, non-condensing
Interfaces and specifications			
	for workplace		1 x bilingual socket (9)
	Computer		1 x bilingual socket (9)
	Transmission	Computer module – user module	1 x LC duplex socket
	Specifications	Protocols	IEEE 1394b 2002 IEEE 1394a 2000 + 1995
		Transmission rate max.	800 Mbit/s
Conformity			CE, RoHS

Order list

Art. no.	Description	
A199 0004	FireWire-800 Transceiver-Set	2 x FireWire-800 Transceiver (transmitter and receiver)

Connectivity

Computer connection cable of 0.7m in length are included.
Power supply cable and power packs are included as standard.

Art. no.	Description	Category in KVM Connectivity	Function
see KVM Connectivity	K-LwLm-LCD-x	Ready-made cable	transmission

x = length in metres, see KVM Connectivity for lengths available.
When ordering, please quote the article number and description.

Legend

A wealth of variants thanks to the modular design
A lot of G&D products are available with different equipment options. The icons below the product pictures show the equipment of the corresponding product.

Important note for KVM Extender
To ensure that the computer and workstation modules are compatible, please check that functional features (letters "ARU" as well as "M" or "S") are identical on both modules. An exception to this is the "delay" component (letter "D") at CATVision which is only used in the computer module.

Example CATVision:
CATVision-ARUD-CPU	+ CATVision-ARU-CON	= ok
CATVision-ARUD-CPU	+ CATVision-U-CON	= not ok

Example LwLVision:
LwLVision(S)-MC2-ARU-PC + LwLVision(S)-MC2-ARU-REM	= ok
LwLVision(S)-MC2-ARU-PC + LwLVision(M)-MC2-AR-REM	= not ok

ABBREVIATIONS

CPU	=	Computer module	M	=	Multimode	
PC	=	Computer module	S	=	Singlemode	
			RM	=	For assembly in a 19" rack	
CON	=	User module				
REM	=	User module	A	=	Audio	
			AR	=	Audio + RS232	
MC2	=	Multichannel 2	R	=	RS232	
MC3	=	Multichannel 3	U	=	transparent USB 1.1	
MC4	=	Multichannel 4	U2	=	transparent USB 2.0	
			D	=	Delay	

EQUIPMENT

 = digital single-link video

 = digital dual link video

 = analog video

 = Audio

 = RS232

 = FireWire-800

 = USB 1.1 or 2.0

 = Delay

 = Power

 = Desktop

 = Rackmount

 = Network connection

 = Web interface

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