

# Converter 1-Port 1000 DATALIGHT®

## product description:



Media converter for connecting wired terminal devices. An RJ45 socket for connecting network-enabled terminal devices, an optical connector for Duplex Fibre 2.2 DATALIGHT, integrated media converter for the conversion of optical signals, for transfers of up to 1 Gbps. Voltage supply via external wall power supply.

The 1-port DATALIGHT converter offers wired network access for a terminal device. It can be connected to other DATALIGHT components via the Duplex Fibre 2.2 DATALIGHT. It is, e.g., connected directly to the router as an uplink for another DATALIGHT device or with a second converter to establish a point-to-point connection.



1 x RJ45 / 1 x GE-POF

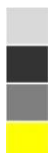


Cat. no.:	Type	Content	PU	Total width mm	Total height mm	Total depth mm	Weight PU/kg
257 40 011	2.2	1	pc(s)	112	64	82	0,17

General properties	
Interface / number of ports	1 x RJ45, 1 x gigabit Ethernet POF
Transmission rate	1 Gbps
Operating temperature	-5 °C to +45 °C (23 °F to 113 °F)
Protection class according to DIN EN 60529	IP 20
Protection class according to DIN EN 61140	II
Installation	Desktop
Additional RJ45 connections (1000 Mbps)	•

Electrical properties	
Voltage supply	DC 5V (external wall power supply 100 - 240 V ~ 50-60 Hz)
Typical power consumption	max. 1 W

Connection properties	
Connection technology	RJ45 connection: DIN EN 60603-7-3: 2011-03 Optical connection: 2.2 mm duplex gigabit Ethernet POF (IEEE 802.3bv) Euro plug, USB connection cable with 2.1 mm coaxial connector
Contact spring material	CuSn
Contact spring surface	1.5 µm Ni / 1.3 Au
Life (mating cycles)	at least 2,500 mating cycles
DIN EN 50173-1: 2003-06	Category 5e, 6
ISO / IEC 11801: 2002, DIN EN 50173: 2011-09	Category 5e, 6
IEC 60603-7-2: 2007	unshielded 100 MHz
TIA / IAE-568-B.2-2001	Category 5e



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### Optical properties

Data transmission rate	1000 Mbps, adaptive lower according to specified power budget
Gigabit Ethernet output power (transmitter)	-5.8 dBm min.
Gigabit Ethernet input power (receiver)	-16.5 dBm min.
Gigabit Ethernet transmission length	typ. 50 m (164 ft.) with POF 2.2 mm class A4.a2 acc. to IEC 60793-2
Maximum transmission length	typ. 90 m (295 ft.) with POF 2.2 mm class A4.a2 acc. to IEC 60793-2
Backward compatibility	Backward compatible with 802.3-FX (100 Mbps POF)
Wavelength	typ. 650 nm

### Standardisation

EN 60950-1:2006 Information technology equipment - Safety - Part 1: General requirements  
Source: Official Journal of the European Union of 11.09.2014 / Applied in full

EN 60825-2:2004 Safety of laser products - Part 2: Safety of optical fibre communication systems (OFCS)  
Source: Official Journal of the European Union of 11.09.2014 / Applied in full

EN 55022:2010 Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement  
Applied in full

EN 55025:2010 Information technology equipment - Immunity characteristics - Limits and methods of measurement  
Applied in full

EN 50581:2013-02 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances  
Applied in full

### Risk analysis

The product has been manufactured and tested according to the harmonized standards EN 60950-1:2006 and EN 60825-2:2004 in the sense of harmonization legislation of the EU. All safety-relevant tests have been adhered to. This product poses no further risk.

### Accessories

Medium-duty corrugated plastic conduit	FFKuS DATALIGHT®	257 10 025
Data line	Duplex Fibre 2.2 DATALIGHT®	257 80 102
Separating tool	Cutter	257 90 001
Connector	Connector 2.2	257 50 002
Switch	Easy Switch 6+2-Port 1000 DATALIGHT®	257 31 026
Network outlet	LAN Access Point 2-Port 1000 DATALIGHT®	257 20 021

### Hotline

Since technical developments cannot be foreseen, electrical installations should provide the possibility to be expanded at any time. If you generously install a system of unused conduits today, you can easily expand your electrical installations later. You save lots of time, money and effort!

**We are happy to help you with your technical questions. Prompt information can be obtained from our technical consultants at +49 9525 88-8123.**

