

1330262

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Fiber optic converter with SC duplex connection (1310 nm) for 100Base-TX to singlemode fiber optics, DIN rail mountable, extended temperature range, redundant power supply.

Product description

The MC 1000T-SM20 SC media converter comes with one 10/100 Mbps twisted-pair RJ45 port and one 100 Mbps singlemode fiber optics port with an SC-duplex connector and wide operating temperature range.

Your advantages

- · Auto MDI/MDI-X switch-over
- · Data transfer rates of 100 Mbps
- Link fault pass through (LFPT) function for easy connection monitoring

Commercial data

Item number	1330262
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN06
Product key	DNC314
GTIN	4063151626341
Weight per piece (including packing)	270.7 g
Weight per piece (excluding packing)	180 g
Customs tariff number	85176200
Country of origin	CA



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Technical data

Notes

Note on application	
Note on application	Only for industrial use
Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area

Product properties

Product type	Media converter
Product family	MC 1000T
MTTF	69.1 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)
	508.3 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	551.7 Years (Telcordia standard, temperature 25 °C, operating cycle 100 % (7 days a week, 24 hours a day))

Electrical properties

Supply

Supply voltage range	12 V DC 57 V DC
Nominal supply voltage	24 V DC
	48 V DC
Typical current consumption	20 mA (24 V DC)
Max. current consumption	170 mA (12 V DC, 75 °C)

Output data

Signal

Voltage output signal	12 V DC 48 V DC (depending on the input voltage)
Current output signal	100 mA

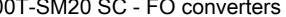
Connection data

Supply

11.3	
Connection method	Push-in spring connection
Single conductor/terminal point, rigid	0.2 mm² 2.5 mm²
Single-wire/terminal point, flexible	0.2 mm² 2.5 mm²
Conductor cross-section, flexible [AWG]	24 12
Stripping length	10.00 mm

Interfaces

Signal	Ethernet
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Data:	Ontics	al ⊢()
Data.	Optice	

Transmit capacity, minimum	-15 dBm (9/125 μm, singlemode fiberglass)
Transmit capacity, maximum	-8 dBm (9/125 μm, singlemode fiberglass)
Connection method	SC duplex
Wavelength	1310 nm
Minimum receiver sensitivity	-32 dBm (9/125 μm, singlemode fiberglass)
Maximum receiver sensitivity	0 dBm (9/125 μm, singlemode fiberglass)
Transmission medium	Single-mode fiberglass

Data: Ethernet interface, 100Base-T(X) in accordance with IEEE 802.3

Transmission speed	10/100 Mbps
Connection method	RJ45 jack, shielded
No. of channels	1
Transmission length	100 m (twisted pair, shielded)
Transmission medium	Copper
Signal LEDs	LNK/ACT, SPD, Err, US, US2
Auto-negotiation modes	Auto
Link through	Link fault pass through
MDI-/MDI-X switchover	Auto-MDI(X)

Dimensions

Width	22.5 mm
Height	123 mm
Depth	90 mm

Material specifications

Material (Housing)	Polyamide fiberglass reinforced
	Aluminum
	Sheet steel

Cable/line

FO cable

Fiber types	9/125 μm
	Fiberglass

Mechanical tests

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	: 5g, 150 Hz, Criterion 3
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	: 30g, 11 ms half-sine shock pulse

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP30
Ambient temperature (operation)	-40 °C 75 °C



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Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 2000 m (in acc. with UL)
Permissible humidity (operation)	10 % 95 % (non-condensing)
Shock	300 m/s², 11 ms (IEC 60068-2)
oprovals	
CE	
Certificate	CE-compliant
UL, USA/Canada	
Identification	Class I, Division 2, Groups A, B, C, and D, T4
MC data	
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
Electrostatic discharge	
Comments	Criterion B
Electromagnetic HF field	
Standards/regulations	EN 61000-4-3
	2.1.0.000 1.0
Electromagnetic HF field Comments	Criterion A
Comments	Criterion A
Fast transients (burst)	
Standards/regulations	EN 61000-4-4
Fast transients (burst)	
Comments	Criterion A
Surge current load (surge)	
Standards/regulations	EN 61000-4-5
Surge current load (surge)	
Comments	Criterion B
Conducted interference	EN 64000 4 6
Standards/regulations	EN 61000-4-6
Conducted interference	
Comments	Criterion A
Emitted interference	
Standards/regulations	EN 55032

Mounting



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Mounting type	DIN rail mounting
Mounting position	on horizontal DIN rail NS 35 in acc. with EN 60715
Useable DIN rail type	DIN rail: 35 mm



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1330262



cULus Listed

Approval ID: E238705

BSH

Approval ID: BSH Nr. 1176



cULus ListedApproval ID: E196811



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Classifications

ECLASS

	ECLASS-13.0	19170411
	ECLASS-15.0	19170411
ETIM		
	ETIM 9.0	EC001467
UNSPSC		
	UNSPSC 21.0	43223323



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Environmental product compliance

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%



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Accessories

FKCT 2,5/ 3-ST KMGY - PCB connector

1998263

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PCB connector, nominal cross section: 2.5 mm², color: light gray, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: FKCT 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting method: without, type of packaging: packed in cardboard

DT-LAN-CAT.6+ - Surge protection device

2881007

https://www.phoenixcontact.com/us/products/2881007



Surge protection in accordance with Class E_A (CAT6_A), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/CDDI, ISDN, DS1. Suitable for Power over Ethernet (PoE++/4PPoE) "Mode A" and "Mode B". RJ45 intermediate plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails. Products with similar requirements: DT-LAN-CAT.6A (2908726) und D-LAN-CAT.5-HC (2800763).



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FL DIN-RAIL ADAPTER 22.5 - Mounting panel

1085485

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The FL DIN-RAIL ADAPTER 22.5 is designed to allow products 22.5 mm wide to be mounted flush to a standard 35 mm DIN rail, in any orientation.

FL PANEL ADAPTER 22.5 - Mounting panel

1085488

https://www.phoenixcontact.com/us/products/1085488



The FL PANEL ADAPTER 22.5 is designed to allow products 22.5 mm wide to be mounted flush to a panel, in any orientation.



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E/NS 35 N - End bracket

0800886

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End clamp, width: 9.5 mm, color: gray

FL CAT5 PATCH 0,5 - Patch cable

2832263

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Patch cable, CAT5, assembled, 0.5 m



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FL CAT5 PATCH 1,0 - Patch cable

2832276

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Patch cable, CAT5, assembled, 1 m

FL CAT5 PATCH 2,0 - Patch cable

2832289

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Patch cable, CAT5, assembled, 2 m



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NBC-R4AC-R4AC-IE8A/.../... - Patch cable

1411854

https://www.phoenixcontact.com/us/products/1411854



Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, ${\rm CAT6}_{\rm A}$, cable outlet: straight, Ethernet

NBC-R4AC/10G-R4AC/10G-94F/2,0 - Patch cable

1408360

https://www.phoenixcontact.com/us/products/1408360



Patch cable, ${\rm CAT6_A}$, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m



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NBC-R4AC/10G-R4AC/10G-94F/3,0 - Patch cable

1408365

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Patch cable, CAT6 $_{\rm A}$, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 $_{\rm m}$

SZS 0,4X2,0 - Screwdriver

1205202

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Micro screwdriver, bladed, size: $0.4 \times 2.0 \times 60$ mm, 2-component grip, with non-slip grip and twist cap



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FL DIN RA - DIN rail adapter

2891053

https://www.phoenixcontact.com/us/products/2891053

The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.



FOC-LC:PA-SC:PA-OS2:D01/1 - FO patch cable

1115618

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Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 1 m





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FOC-SC:PA-SC:PA-OS2:D01/2 - FO patch cable

1115548

https://www.phoenixcontact.com/us/products/1115548

Single-mode OS2 duplex jumper, SC-SC, UPC polishing, length 2 $\rm m$



FOC-LC:PA-SC:PA-OS2:D01/2 - FO patch cable

1115617

https://www.phoenixcontact.com/us/products/1115617

Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 2 m





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FOC-SC:PA-SC:PA-OS2:D01/0.5 - FO patch cable

1115551

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Single-mode OS2 duplex jumper, SC-SC, UPC polishing, length $0.5\ m$



FOC-ST:PA-SC:PA-OS2:D01/0.5 - FO patch cable

1115583

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Single-mode OS2 duplex jumper, ST-SC, UPC polishing, length $0.5\ m$





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FOC-LC:PA-SC:PA-OS2:D01/0.5 - FO patch cable

1115620

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FOC-ST:PA-SC:PA-OS2:D01/1 - FO patch cable

1115582

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Single-mode OS2 duplex jumper, ST-SC, UPC polishing, length 1 m





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FOC-ST:PA-SC:PA-OS2:D01/2 - FO patch cable

1115581

https://www.phoenixcontact.com/us/products/1115581

Single-mode OS2 duplex jumper, ST-SC, UPC polishing, length 2 m



FOC-LC:PA-SC:PA-OS2:D01/5 - FO patch cable

1115615

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Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 5 m





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FOC-SC:PA-SC:PA-OS2:D01/1 - FO patch cable

1115550

https://www.phoenixcontact.com/us/products/1115550

Single-mode OS2 duplex jumper, SC-SC, UPC polishing, length 1 $\rm m$



FOC-SC:PA-SC:PA-OS2:D01/5 - FO patch cable

1115546

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Single-mode OS2 duplex jumper, SC-SC, UPC polishing, length 5 $\,\mathrm{m}$





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FOC-SC:PA-SC:PA-OS2:D01/3 - FO patch cable

1115547

https://www.phoenixcontact.com/us/products/1115547

Single-mode OS2 duplex jumper, SC-SC, UPC polishing, length 3 $\,\mathrm{m}$



FOC-ST:PA-SC:PA-OS2:D01/5 - FO patch cable

1115579

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Single-mode OS2 duplex jumper, ST-SC, UPC polishing, length 5 m





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FOC-LC:PA-SC:PA-OS2:D01/10 - FO patch cable

1146546

https://www.phoenixcontact.com/us/products/1146546

Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 10 m



FOC-ST:PA-SC:PA-OS2:D01/3 - FO patch cable

1115580

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Single-mode OS2 duplex jumper, ST-SC, UPC polishing, length 3 m





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FOC-ST:PA-SC:PA-OS2:D01/10 - FO patch cable

1146550

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Single-mode OS2 duplex jumper, ST-SC, UPC polishing, length 10 $\rm m$



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