



Identification	Type	MC2031
	Part-No.	772031
Description		
	1×1000 Mbps RJ45, 1×1000 Mbps SC, Auto MDI/MDI-X auto crossover DC 12 V - DC 48 V, redundant Full/half duplex operation, autonegotiation, ESD 4 kV, surge 3 kV	
Communication		
Standard	IEEE 802.3, 802.3ab, 802.3u, 802.3x, 802.3z	
LAN	10 / 100 / 1000 Base-TX, 1000 Base-SX, 1000 Base-LX	
Cable length (segment)	Ethernet: max. 100 m, Fibre: 550 m (multimode), 10,000 m (single mode)	
Transfer rate	max. 1000 Mbit/s	
Connection technology (data)	1 × RJ45, 1 × SC, 6-pin connector	
Status display communication	P1, P2, P-Fail, Fibre: Link/Activity, Ethernet: 1000 M, Link/Activity	
Fibre-optic cables (Single Mode)		
Wavelength	1310 nm	
Tx Power	-3 / -9.5 dBm	
Rx sensitivity	-20 dBm	
Parameters	9/125 µm	
Fibre-optic cables (Multi Mode)		

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DIP switch Port Alarm, LFP

Safety

ESD (Ethernet)	DD 4 kV
Surge (EFT for power)	DC 3 kV
Reverse voltage protection	Yes
Rated over load protection	0.9 A @ DC 12 V, resettable

Monitoring

Power supply voltage monitoring	Relay, 1 normally open
Switching voltage	AC 120 V / DC 28 V
Switching current	1 A @ DC 24 V
Isolation voltage	DC 500 V

General

Operation voltage range	DC 12–48 V, redundant
Power consumption	5.30 W
Protection class	IP20
Relative humidity (operation)	5% - 95% (non-condensing)
Relative humidity (storage)	0% - 95% (non-condensing)
Operation temperature range	-10 °C ... +60 °C
Storage temperature range	-40 °C ... +85 °C
Dimensions (w × h × d)	37.0 × 140.0 × 95.0 mm
Weight	0.600 kg/piece
Housing material	Metal
Mounting	DIN rail mountable TS35 (EN 60715)
Installation position	any
Connection device	Screw terminal plug-in 0.20 mm ² – 2.5 mm ²
Standards	UL 60950-1 CAN/CSA-C22.2 No. 60950 USA-FCC Part 15 CISPR22 EN 55011 EN 55022 Class A EN 61000-3-2/3 EN 55024 IEC 61000-4-2/3/4/5/6/8 EN 61000-6-2 IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-6

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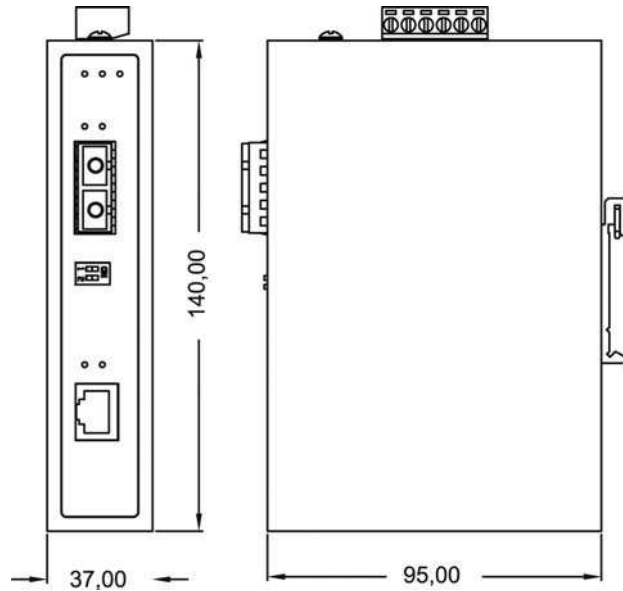
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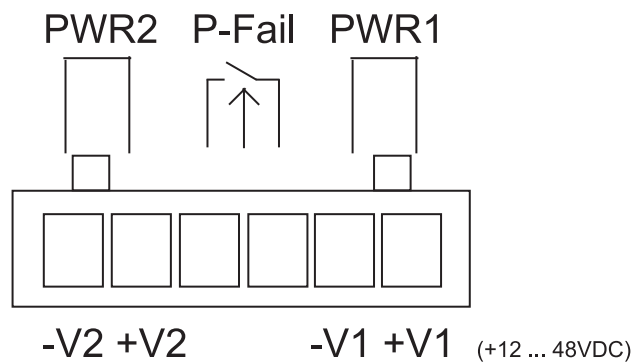
Approvals	cULus CE FCC
PU	1 piece

Note For more information on LED definition, see the data sheet.

Dimensions



PIN assignment



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LED status

LED	Color	Description	
P1	Green	On	Power input 1 ist active
		Off	Power input 1 is inactive
P2	Green	On	Power input 2 ist active
		Off	Power input 2 is inactive
P-Fail	Red	On	Power input 1 or 2has failed
		Off	Power input 1 and 2 are both functional, or no power input
LNK/ACT (fiber port)	Green	On	Connected to network
		Flashing	Network is active
		Off	Not connected to network
1000M (RJ-45)	Yellow	On	Link to 1000M bps network
		Off	Not connected to network
LNK/ACT (RJ-45)	Green	On	Connected to network
		Flashing	Networking is active
		Off	Not connected to network

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