

2*10/100/1000Base-T to 2*100/1000Base-X

Compact Industrial Media Converter

DK-MC10G-2T2S-E



Features

- 2*10/100/1000Base-T RJ45 ports, 2*100/1000Base-X SFP ports
- DC 12~58V input, redundant power supply with polarity reverse/over-voltage protection
- Powerful Dip switch function:
 1. Fiber redundant;
 2. Flow control;
 3. Broadcast storm restrain;
 4. Fiber ports 100/1000M selection
- Support 10K Bytes Jumbo frame and 1M large buffer
- Support 4KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- IP40 fan-less and Din-rail hardware design with compact size (30*85*85mm)
- Operation temperature: -40°C ~+75°C

Overview

The DPTEK DK-MC10G-2T2S-E is the unmanaged industrial grade media converter with 2-port 10/100/1000-T RJ45 and 2-port 100/1000Base-X fiber optical interfaces. It is featuring with fiber redundant, flow control, broadcast storm restrain and fiber ports 100/1000M selection function, which all can be configured by the Dip switch on the top panel.

DK-MC10G-2T2S-E is also a high cost-effective easy-to-use device, which provides essential industrial Ethernet

networking function, such as wide range power input 12-58VDC, redundant power design with polarity reverse/over-voltage protection, robust IP40 fan-less compact housing with Din-rail installation, wide operation temperature from -40°C to 75°C as well as high-level EMI/EMC capability and so on. It is the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions exceed commercial product specifications.

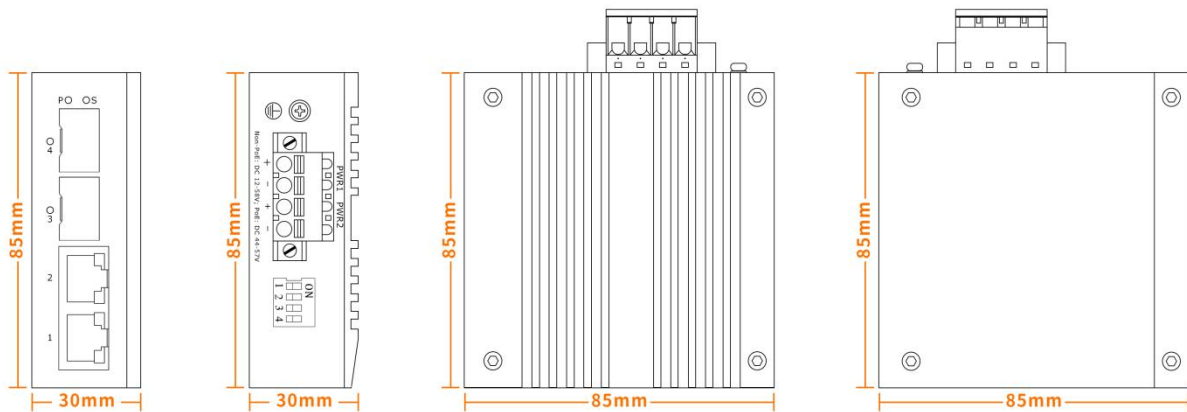
Technical specification

Model No.	DK-MC10G-2T2S-E		
Interface	Fiber ports	Copper RJ45 ports	
	2	2	
Ethernet	2*10/100/1000Base-T RJ45 2*100/1000Base-X SFP		
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet		
Dip Switch	1. Fiber redundant 2. Flow control 3. Broadcast storm restrain 4. Fiber ports 100/1000M selection		
LED Indicators	P(Power indicator) Green	Off: the device is power off or failed	
		On: the device power on is normal	
	S(System indicator) Red	Off: the chip is normal	
		On: the chip read/write is unnormal	
	1-2 (Copper ports)	Green indicators	Yellow indicators
		Off: ports link down	Off: port speed is 10/100M
		On: ports link up	On: port speed is 1000M
		Blinking: data on TX/RX	
	3-4 (Fiber ports) Green	Off: ports link down	
		On: ports link up	
Blinking: data on TX/RX			
Power parameters			
Input voltage	12-58VDC, redundant power input		
Input current	0.3A Max		

Total power consumption	Full loading ≤3W
Connector	Removable 4-pin terminal block
Reverse polarity protection	Support
Over-voltage protection	Support
Switching features	
Switching capacity	8G
Packet forwarding rate	11.9Mpps
MAC address table	8K
VLAN	4K
Buffer	1M
Forwarding delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support
Network Topology	
Star topology	Support
Bus topology	Support
Tree Topology	Support
Mechanical structure	
Case protection	IP40
Installation method	Din-rail
Dimension(W*D*H)mm	30*85*85mm
Weight	0.22 kg
Operating environment	
Operating temperature	-40℃~+75℃
Storage/transportation temperature	-40℃~+85℃
Relative humidity	5%~95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4KV/2KV) (8/20us)
	Surge protection of Ethernet ports: IEC 61000-4-5 Level 3 (4KV/2KV) (10/700us)

	DIP: IEC 61000-4-11 Level 3 (10V)
	ESD: IEC 61000-4-2 Level 4 (8K/15K)
	Shock: IEC 60068-2-27
	Free fall: IEC 60068-2-32
	Vibration: IEC 60068-2-6
Certification	CE/FCC/RoHS
Warranty	5 years

Structure diagram



Order information

Model	Description
DK-MC10G-2T2S-E	10/100/1000Base-T to 1000Base-X unmanaged compact industrial media converter with 2*10/100/1000Base-T RJ45 ports and 2*100/1000Base-X SFP slots, DC12-58V input, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module; Operation temperature: -40°C~+75°C