

## 2\*10/100Base-TX PoE to 2\*100Base-FX

### Compact Industrial PoE Media Converter

DK-MC10F-2FP2FS-E



#### Features

- 2\*10/100Base-TX RJ45 PoE ports, 2\*100Base-FX SFP fiber ports
- DC 44~57V input, redundant power supply with polarity reverse/over-voltage protection
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- Powerful Dip switch function:
  - 1. Fiber redundant; 2. Flow control; 3. 250m long distance; 4. PoE watchdog
- 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-MC10F-2FP2FS-E is the unmanaged industrial grade PoE media converter with 2-port 10/100Base-TX PoE and 2-port 100Base-FX fiber optical interfaces. It complies with IEEE802.3af, IEEE802.3at standard PoE protocol, the Max power consumption can reach 30W (PoE+) per port. Moreover, it is featuring with fiber redundant, flow control, 250m long distance transmission mode and PoE watchdog function, which all can be configured by the Dip switch on the top panel.

DK-MC10F-2FP2FS-E is also a high cost-effective easy-to-use device, which provides essential industrial

Ethernet networking function, such as wide range power input 44-57VDC, 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 ~+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.

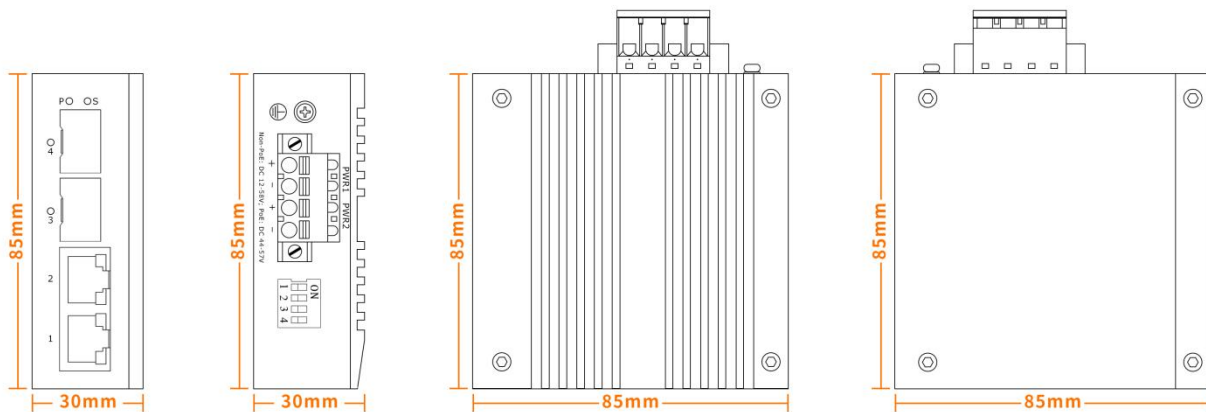
### Technical specification

Model No.	DK-MC10F-2FP2FS-E		
Interface	Fiber ports	Copper RJ45 ports	
	2	2	
Ethernet	2*10/100Base-TX PoE 2*100Base-FX SFP		
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet IEEE 802.3af Power-Over-Ethernet IEEE 802.3at Power Over Ethernet plus PSE		
Dip Switch	1. Fiber redundant 2. Flow control 3. 250m long distance mode 4. PoE watchdog		
LED Indicators	P(Power indicator) <b>Green</b>	Off: the device is power off or failed	
		On: the device power on is normal	
	S(PoE usage indicator) <b>Red</b>	Off: total PoE usage < rated 50%	
		Blinking: rated 50% < total PoE usage < rated 90%	
		On: total PoE usage ≥ rated 90%	
	1-2(Copper ports)	<b>Green</b> indicators	<b>Yellow</b> indicators
		Off: ports link down	Off: PoE not working
		On: ports link up	On: PoE working
	Blinking: data on TX/RX		
	3-4 (Fiber ports) <b>Green</b>	Off: ports link down	
On: ports link up			
Blinking: data on TX/RX			
<b>Power parameters</b>			
Input voltage	44-57VDC, redundant power input		

Input current	1.5A Max
Total power consumption	Full loading without PoE $\leq$ 3W PoE power budget $\leq$ 60W
Connector	Removable 4-pin terminal block
Reverse polarity protection	Support
Over-voltage protection	Support
<b>Switching features</b>	
Switching capacity	0.8G
Packet forwarding rate	1.9 Mpps
MAC address table	8K
VLAN	4K
Buffer	1M
Forwarding delay	<10us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support
<b>Network Topology</b>	
Star topology	Support
Bus topology	Support
Tree Topology	Support
<b>Mechanical structure</b>	
Case protection	IP40
Installation method	Din-rail
Dimension(W*D*H)mm	30*85*85mm
Weight	0.22kg
<b>Operating environment</b>	
Operating temperature	-40°C~+75°C
Storage/transportation temperature	-40°C~+85°C
Relative humidity	5%~95% (non-condensing)
<b>Industrial Standard</b>	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
<b>Certification</b>	CE/FCC/RoHS
<b>Warranty</b>	5 years

### Structure diagram



### Order information

Model	Description
<b>DK-MC10F-2FP2FS-E</b>	10/100Base-TX to 100Base-FX unmanaged compact industrial PoE media converter with 2*10/100Base-TX PoE ports and 2*100Base-FX SFP slots, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module; Operation temperature: -40°C~+75°C