



This device provides 16Channel telephone, 1-4Channel E1 interface, 4Channel 10M/100M Ethernet interface (Wire Speed 100M) and 4 expansion interface. 4Channel Ethernet interface is switch interface, can support VLAN. 4 expansion interface can be used as the transmission channel of RS232/RS485/RS422 asynchronous data, voice signal, 2/4 line E&M audio signal, switch signal, Ethernet signal (Bandwidth 2M). It is very flexible.

Features:

- Based on self -copyright IC
- E1 interface comply with G.703, adopts digital clock recovery and smooth phase-lock technology Voice port supports FXO and FXS port,
- Support FXO/FXS, EM2/4 audio, Magnet telephone Interface, FXO port docking with program-controlled switchboard, FXS port connected to the user's telephone;
- 1~16channel Voice access, supports caller ID feature and reverse polarity billing functions
- Support various sites mutual number allocation function
- Provide 4 expansion interface, you can extend 1~4Channel asynchronous data, such as RS232/RS485/RS422/Manchester code

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- 1~16channel Voice access, supports caller ID feature and reverse polarity billing functions
- Support various sites mutual number allocation function
- Provide 4 expansion interface, you can extend 1~4Channel asynchronous data, such as RS232/RS485/RS422/Manchester code; 1~4Channel voice, 1~8Channel switch or two/four line audio and so on
- Ethernet interface supports 10M/100M, half/full duplex auto- adaptable, support VLAN
- 4Channel Ethernet interface is switch interface, support VLAN, can set to 4 channel logical isolation
- Ethernet interface can support AUTO-MDIX (crossed line and straightly connected line self-adaptable)
- Telephone interface with lightning protection, lightning reached IEC61000-4-5 Short circuit current wave 8 / 20μs, the peak output voltage 6KV open standards.
- The transmission distance is up to 2-120Km without interruption
- AC 220V, DC-48V, DC24V can be optional

Parameters

◆ Fiber

Optical port: 1 , 2

Optical Fiber: Single/Dual fiber

Fiber interface: FC/SC/ST/LC(SFP)

Wavelength: 850nm/1310nm Multimode; 1310nm/1550nm Single mode

Relay-free transmission distance: 20~120Km

Typical transmit power:

Single mode1310/1550nm: $\geq -9\text{dB}$

Multimode850nm: -18dBm

Multimode1310nm: -25dBm

Receive sensitivity range: $-28\text{dBm} \sim -40\text{dBm}$

Physical Interface: RJ45 Support Auto-MDIX

◆ E1 Interface

Interface Standard: comply with protocol G.703;

Interface Rate: $n*64\text{Kbps} \pm 50\text{ppm}$;

Interface Code: HDB3;

E1 Impedance: 75Ω (unbalance), 120Ω (balance);

Jitter tolerance: In accord with protocol G.742 and G.823

Allowed Attenuation: $0 \sim 6\text{dBm}$

◆ Ethernet interface(10/100M)

Interface rate: 10/100 Mbps, half/full duplex auto-negotiation

Interface Standard: Compatible with IEEE 802.3, IEEE 802.1Q (VLAN)

MAC Address Capability: 4096

Connector: RJ45, support Auto-MDIX

◆ FXS Phone Interface

Ring voltage: 75V

Ring frequency: 25HZ
 Two-line Impedance: 600 Ohm (pick up)
 Return loss: 40 dB

◆ **FXO Switch Interface**

Ring detect voltage: 35V
 Ring detection frequency: 17HZ-60HZ
 Two-line Impedance: 600 Ohm (pick up)
 Return loss: 40 dB

◆ **EM 2/4 Line**

AD: 0dB
 DA: -3.5dB
 Two/Four-line Impedance: 600 Ohm
 Return loss: 20 dB

◆ **Working environment**

Working temperature: -10°C ~ 50°C
 Working Humidity: 5%~95 % (no condensation)
 Storage temperature: -40°C ~ 80°C
 Storage Humidity: 5%~95 % (no condensation)

Specifications

Model	FCP-O16E4F4R4/FCP-S16E4F4R4
Functional Description	16 * telephone, 4E1, 4* FE Ethernet, Console or SNMP, Support 6U rackmount, One or Two Fiber interface, 4*RS232/422/485
Power	Power supply: AC180V ~ 260V ; DC -48V ; DC +24V Power consumption: ≤10W
Dimension	Product Size: 485X138X45mm(WXDXH) 19 1U
Weight	2.4KG

