Product Datasheet

7-port Full Gigabit PoE Fiber Switch
(CTX0004PFD)

OVERVIEW

The CTX0004PFD is an unmanaged gigabit PoE fiber switch. It has 1*1000Base-X uplink SFP fiber port and 2*10/100/1000Base-T uplink RJ45 port and 4*10/100/1000Base-T RJ45 ports. Port 1-4 can support IEEE 802.3 af/at PoE standard and single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and recognize the power-receiving equipment that meets the standard and supply power through the network cable. It can supply power to PoE terminal equipment such as wireless AP, IP camera, VoIP phone, video access control intercom, etc. through a network cable to meet the network environment that needs a high-density PoE power supply. It is suitable for hotels, campuses, factory quarters, and small and medium-sized enterprises to form an economy efficient network. Unmanaged mode, plug and play, no configuration, easy to use.

FEATURE

■ **Full gigabit rate, uplink optical port**

◇ Support non-blocking wire-speed forwarding for smoother transmission.

◇ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.

◇ Provides Gigabit Ethernet ports and SFP ports uplink for flexible networking and meets the networking requirements of various scenarios.

■ **Smart PoE power supply**

◇ 4*10/100/1000Base-T RJ45 ports support PoE power to meet the needs of PoE power in various scenarios in the security field.

◇ Comply with PoE+ power standard, automatically identify PoE devices for power without damaging non-PoE devices, and the single port max PoE output power is 30W.

◇ PoE port supports the watchdog function, which automatically detects the data communication status in real-time. When the port communication fails, the corresponding port PoE will automatically restart and repair the network communication by itself.

■ **Stable and reliable, easy to use**

◇ CCC, CE, FCC, RoHS.

◇ Plug and play, no configuration, simple and convenient.

◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, and PoE.

◇ Self-developed power supply, high redundancy design, providing a long-term and stable PoE power output.

◇ Low power consumption, no fan, galvanized steel casing, excellent heat dissipation to ensure the stable operation of the switch.

■ **Innovative function**

◇ **PoE watchdog:** The watchdog function is enabled by default for ports 1 to 4, which can automatically detect the data communication status in real-time. When the port communication fails, the corresponding port POE will automatically restart, and the network communication can be repaired by itself, eliminating manual maintenance costs.

◇ **Long-distance and VLAN mode (250m):** switch to ON position (default off), the port 1 to 4 rate is 10M, and the physical VLAN isolation function is turned on at the same time to suppress broadcast storms and improve network performance. Using the existing twisted pair can break through the 100 meters transmission limit, and the transmission distance can be up
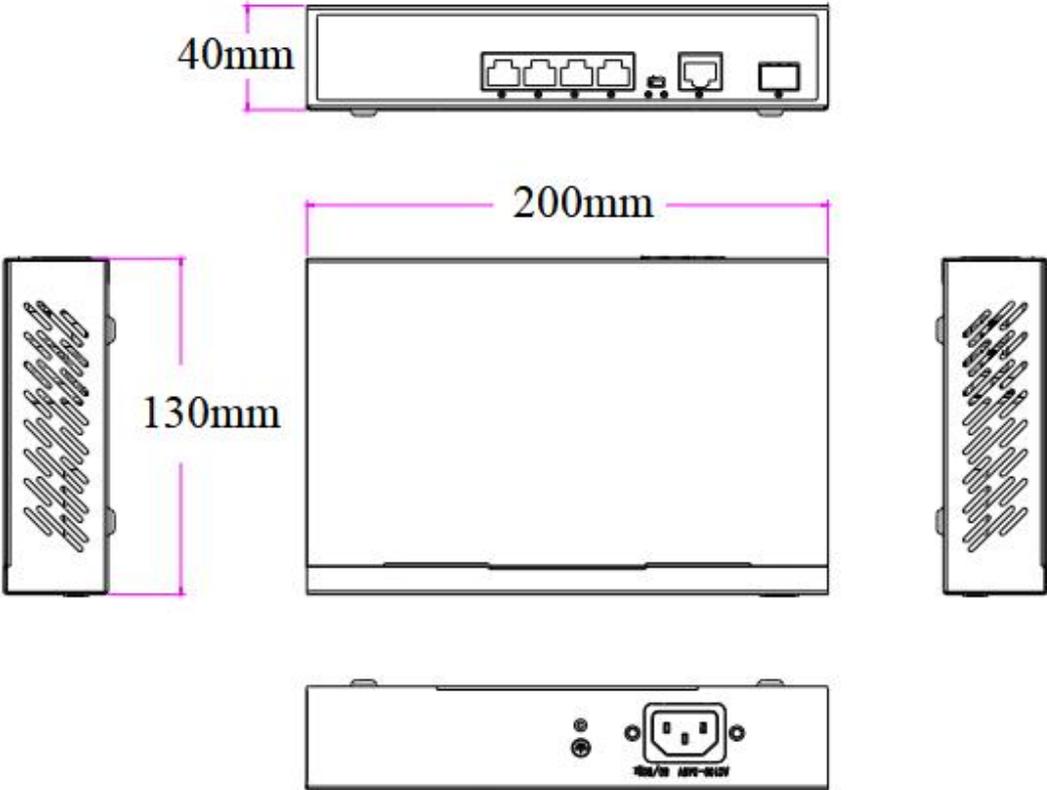
to 250 meters. At the same time, it can solve the problem of poor transmission caused by aging lines.

TECHNICAL SPECIFICATION

Model	CTX0004PFD
Interface Characteristics	
Fixed Port	1*1000Base-X uplink SFP fiber port (Data) 2*10/100/1000Base-T uplink RJ45 port (Data) 4*10/100/1000Base-T PoE ports (Data/Power)
Ethernet Port	Port 1-6 can support 10/100/1000Base-T(X) auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤250 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters)
Optical Fiber Port	Gigabit optical fiber port, default no include optical module(optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km
Functional Switch	**250m:** long-distance and VLAN isolation function (Default off, Use:on), After opening, the transmission rate of port 1-4 is 10M/250 meters transmission.
Chip Parameter	
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	14Gbps (Non-blocking)
Forwarding Rate@64byte	10.4Mpps

MAC	2K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (Green), Network: Link (Green), PoE: PoE (Red), Functional switch: 100m/250m (Green)
PoE & Power Supply	
PoE Port	Port 1 to 4
Power Supply Pin	1/2(+) 3/6(-)
Max Power Per Port	30W, IEEE 802.3 af/at
Total PWR / Input Voltage	65W/ (AC100-240V)
Power Consumption	Standby <3W, Full load <65W
Power Supply	Built-in power supply, AC100~240V 50-60Hz, 1.0A
Physical Parameter	
Operation TEMP/ Humidity	-20~+55°C, 5%~90% RH Non condensing
Storage TEMP/ Humidity	-40~+80°C, 5%~95% RH Non condensing
Dimension (L*W*H)	200*130*40mm
Net /Gross Weight	0.6kg / 0.9kg
Installation	Desktop, Wall mounted
Certification & Warranty	
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Warranty	1 year

DIMENSION

40mm

200mm

130mm

APPLICATION

ORDERING INFORMATION

Model	Description	Power Supply
CTX0004PFD	Unmanaged PoE switch with 6*10/100/1000M RJ45 ports and 1*1000Base-X uplink SFP fiber ports. Port 1-4 can support PoE+ standard. PoE watchdog function is turned on by default, switch the functional switch (250m), port 1-4 rate is 10M/250m transmission and built-in power supply.	52V/65W

PACKING LIST

	Content	Qty	Unit
Packing List	7-port full gigabit PoE fiber switch	1	SET
	AC Power Line	1	PC
	User Guide	1	PC
	Warranty Card	1	PC