

# PRODIGY INDUSTRIAL ETHERNET SWITCH

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# PD1-S21-5281F-I

**Managed Industrial Ethernet Switch** 

# OVERVIEW

• PD1-S21-5281F-I is a new generation Managed Industrial Ethernet Switch with 24-Port 10/100/1000Base-TX and 4-Port 100/1000Base-FX FX sts SFP that provide stable and reliable Ethernet transmission offered by us, with high quality design and reliability. It is positioning in the broadband network intervention market, to offer and realize Ethernet data exchange, convergence and long-distance optical transmission with efficient bandwidth and reliable fiber optic network solutions for users. The industrial switch complies with various characteristics such as mini size, no fan, low power consumption, high reliability, and easy to maintain.

• With dual power input design, PD1-S21-5281F-I can offer redundant mechanisms for critical applications that need always-on connections. It can also operate either at standard operating temperature range -40 to 75°C. Housed in rugged DIN rail or wall mountable IP40 enclosures, these switches are perfect choices for harsh environments, such as industrial networking, intelligent transportation systems (ITS) and are also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications.

## FEATURES

- 24x10/100/1000Base-TX RJ45 ports, 4x100/1000Base-FX Fast SFP ports.
- Support Auto-MDIX, and full/half duplex self-negotiation mode.
- Provide SFP interface fiber port, support single/dual fiber transmission.
- Support 10K bytes giant frame, compatible with various extension protocol.
- 16K MAC address table.
- Support IEEE802.3az energy efficient Ethernet technology.
- Support IPv6 Protocol.
- Electric 8KV surge protection, easy to use in outdoor environment.
- Complete status indicator, working state at a glance.
- Power input polarity protection design, no worry about wrong operation.
- Metal case, no fan design.
- Installation method: DIN trail /Wall mounting.

## TECHNICAL SPECIFICATIONS

Physical Port	
• RJ45 port	24x10/100/1000Base-TX.
• Fiber port	4x100/1000Base-FX SFP.
Console port	1.
Parameters	
• CPU	RISC 300MHz.
• Flash	1 GB.
Memory	1 GB
<ul> <li>Ethernet standards</li> </ul>	IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3ab, IEEE802.3ad, IEEE802.3x, IEEE802.3az, IEEE802.3ah, IEEE802.1AB,
	IEEE802.1D, IEEE802.1p, IEEE802.1s, IEEE802.1w, IEEE802.1X, IEEE802.1Q.
<ul> <li>Packet buffer</li> </ul>	4Mbits.
<ul> <li>Maximum packet length</li> </ul>	Up to 10KBytes.
<ul> <li>MAC address table</li> </ul>	16К.
<ul> <li>Transmission mode</li> </ul>	Store and Forward(full/half duplex mode).
<ul> <li>Exchange property</li> </ul>	Delay time: < 7µ.
	Switching fabric: 36 Gbps.
	L3 forwarding rate: 9,6 Mpps all wire-speed, with filtering.

For enquires, please email to info@terrabitnetworks.com



#### PRODIGY **INDUSTRIAL ETHERNET SWITCH**

#### **LED Indicator**

- Power
- RJ45
- Fiber

### **Power Information**

- Power access mode
- Redundant power input
- Overload protection
- Power reverse
- Power consumption

#### **Physical Property**

- Protection grade
- Cooling mode
- Dimensions
- Installation mode
- Weight

#### **Working Environment**

- Operating Temperature
- Operating Humidity
- Storage

#### Warranty

- MTBF
- Defects Liability Period

### **Certification Standard**

- EMI
- EMS

Shock

- Free Fall
- Vibration
- Safety grade

#### Software

Features

#### Connect-always.

Link/SPD: connect-always; data exchange-twinkle Speed light: 100Mbps-always; 10Mbps-twinkle. Link/Act: connect-always; data exchange-twinkle.

Phoenix terminal DC seat DC 9-56V / AC 100-240V. Yes. Support. Full-load<15W.

IP40 aluminum case. Natural cooling, no fan design. 440mm x 310mm x 44mm (L x W x H). DIN trail/wall-mountable. 3000g.

-40C°~75C°. 5%~90% non-condensing. -40C°~85C°.

500,000 hours. 1 year warranty, lifetime technical support.

#### FCC Part15 Subpart B Class A, EN 55022 Class A, CE, LVD, EMC.

IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air). IEC61000-4-3 (RS): 10V/m (80MHz-2GHz). IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV. IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV. IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz). IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s). IEC1613. IEC61850-3. IEC60068-2-27. IEC60068-2-32. IEC60068-2-6. EN60950-1.

TerOS. STP, EAPS/ERPS, Modbus TCP/IP. Multicast: IGMP Snooping V1/V2/V3, GMRP. VLAN: IEEE 802.1Q 4K VLAN, QINQ. Link Aggregation: manual / static / LACP. Routing: Static, RIP, OSPF. QOS: COS, DSCP, 8 queues, WRR/SP/WFQ scheduling, QOS Policy. Management Function: SNMP v1/v2, RMON (groups 1, 2, 3, 9), Telnet, CLI, WEB, NTP, SSH, LLDP and Universal Broad Director NMS software. Diagnostic Maintenance: Port mirroring, Syslog, Ping. Alarm management: 1 way relay alarm output, RMON, SNMP Trap. Security DHCP Snooping, Option 82, 802.1X, User hierarchical management, ACL, DDOS, port based MAC filtering / bindina Data control: Port-based ingress/egress speed limit, Full duplex IEEE 802.3x, half duplex back-pressure flow control. Broadcast storm suppression, Unknown-Multicast suppression and Unknown-Unicast suppression.

## **OPTIONAL ACCESSORIES**

For Optional Fiber Module, please refer to Spectrum Terrabit Transceiver.

# **ORDERING INFORMATION**

Model	Description
PD1-S21-5281F-I	Gigabit Industrial Ethernet Switch, managed, 24x10/100/1000Base-TX + 4x100/1000Base-FX SFP

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