

TERRABIT PRODIGY PD1-S31-4241-POE GE ROUTING SWITCH SERIES



PD1-S31-4241-PoE

Hi-performance Gigabit Ethernet Switch

FEATURES

Excellent performance

12.8 Gbps switch fabric, hardware routing, wire-speed L3 forwarding rate: 9.6 Mpps.

High port density. 24 100M ports and up to 4 Gigabit ports.

120 -km transfer by Gigabit optical fiber, direct connection to WAN.

Security and reliability

IEEE 802.1x, VRRP

Powerful ACL supports L2-L7 data filtering. Intelligent forwarding, complete defense against viruses like 'Code Red' or 'Blaster'.

RPS power hot standby.

QinQ double VLAN security.

Easy maintenance

Automatic recognition for straight-through or crossover cables

Stackable physically and through cluster technology. Central management with unified IP address saves IP addresses

Management via CONSOLE port, Web, SNMP, Telnet etc.

Support (Terrabit Networks) Prodigy Director, HP Open View, Cisco Works 2000.

Traffic and broadcast control

Auto-detection, restraining of broadcast storm and IGMP snooping effectively restrict broadcast

Full- and half- duplex traffic control. Ethernet port rate limiting with 64 K step size. IP multicast and QoS support.

Jumbo frame.

Routing protocols

Static routing.

Support RIP v1/v2, OSPF v2, BEIGRP, BGP v4 and many other dynamic routing protocols.

Support PIM-SM/DM.

Ethernet Ring

The ring-network protection protocol can resume network communication within 50 ms. A ring 16 elements, each element processing 16 ring.

TECHNICAL SPECIFICATIONS

- IEEE 802.1D STP, IEEE 802.1w RSTP, IEEE802.1s MSTP
- IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-X, IEEE 802.3x full-duplex flow control, IEEE 802.3af (Power over Ethernet), IEEE 802.3at
- IEEE 802.1x port-based user authentication
- QinQ double VLAN Security
- Hardware support for IP ACL, MAC ACL, VLAN ACL
- Hardware support for port-based user authentication by combinations and bandings of port, IP address, and MAC address
- Remote authentication through RADIUS
- User privilege classification and password protection
- IP Source Guard

Interface

Port & Slot: 24 10/100M support PoE, 4 GE TX/SFP ports 1 Console Port

Performance

Processor: MPC 266MHz

FLASH: 8 MB

Memory: 128 MB (up to 512 MB) Switch Fabric: 12.8 Gbps

L3 Forwarding Rate: 9.6 Mpps, all wire-speed, with

Switching Mode: Store-and-forward MAC Address Table Size: 16 K Queuina Buffer: 64 MB Jumbo frame: 16383

Hardware Routing Table Size: 4 K

L2 multicast group: 1 K L3 multicast group: 1 K

802.1Q VLAN: $1 \sim 4094$, partition at will

LED Indicators: Power, system, link, activity, 10/100M VLAN: Port-based VLAN, 802.1Q tag VLAN, VLAN Stacking (QinQ), Super VLAN, Private VLAN, GVRP dynamic VLAN configuration, 4K active VLANs

Traffic Control: Back pressure at half-duplex, 802.3x at full-duplex, CAR support, 64 K step size

Storm Control: Broadcast/Multicast/Unicast Multicast Control: IGMP snooping

Port Trunking: Up to 32 groups with up to 8 ports per

group, dynamic LACP or static aggregation Port Mirroring: Supported. Can be based on flow

classification and based on port

Clustering: Up to 256, manageable through single IP

DDM: support

Ethernet OAM: 802.1ag, 802.3ah, ITU-T Y.1731, Support 256 MEP, 256 MA

Unicast: Static, RIP v1/v2, OSPF v2, BEIGRP (compatible with Cisco EIGRP), BGP v4, Intelligent forwarding to defend against virus attacks and

PBR: IP-based policy routing

Multicast: IGMP v1/v2/v3, PIM-SM/DM Proxy: Proxy ARP,

DHCP: DHCP Server/Client/Relay, DHCP option 82. IP Source Guard

NAT: Static or dynamic NAT

QoS:

- Head Of Line(HOL) blocking prevention mechanism
- 4 dispatching queues per port, mapping the 8 priority queues in 802.1p
- Best Effort Service
- Differentiated Service
- Strict Priority

illegal access

- Weighted Round Robin
- First Come First Serve
- TOS re-tagging, RTS

Network Management:

- SNMP v1/v2/v3
- RMON(Group 1, 2, 3, 9)
- Telnet, Command Line Interface(CLI)
- · Web interface, SNTP
- Support PRODIGY network management tools suite: Prodigy Director
- NTP, SSH, LLDP, TFTP/FTP

Power Requirements

Power Consumption: 400 W (max.)

AC input: AC 100~240 V, 47 ~ 63 Hz, 1A/230V, RPS

power hot standby DC input: -48VDC

Physical Characteristics

Dimensions (LxWxH) (mm): 442x385x44mm

Environmental Limits

Operating Temperature: $0 \sim 50^{\circ}$ C Nonoperating Temperature: -40 \sim 70°C Humidity: 0 ~ 90% (no condensing)

OPTIONAL ACCESSORIES

For Optional Fiber Module, please refer to Spectrum Terrabit Transceiver

ORDERING INFORMATION

Model	Description
PD1-S31-4241-PoE	Network management switch, 24 ports 10/100M PoE, 4 ports Gigabit TX/SFP Combo, AC
PD1-S31-4241-PoE-DC	Network management switch, 24 ports 10/100M PoE, 4 ports Gigabit TX/SFP Combo, DC