

PRODIGY LAYER 2 ACCESS SWITCH



PD1-S21-2101

Hi-performance, Network Manageable Gigabit Ethernet Switch

FEATURES

Performance

- 32Gbps switch fabric, non-congestion design, all wire-speed forwarding.
- 80-km transfer by Gigabit optical fiber, direct connection to WAN.

Security and reliability

- Quota system for connected hosts per port.
- IEEE 802.1x port-based user authentication.
- Port trunking adds to bandwidth and redundancy.

Easy maintenance

- Automatic recognition for straight-through or cross-over cables.
- Stackable physically and through cluster technology. Central management with unified IP address saves IP addresses.
- Management via CONSOLE port, SNMP, Web, Telnet, etc.
- Software and BootRom upgrade through TFTP.

Traffic and broadcast control

- Auto-detection and restraining of broadcast storm, IGMP snooping, effectively restrict broadcast flooding.
- Full- and half- duplex traffic control.
- Ethernet port rate limiting with 64 K step size (1 M step size for rate over 1.8 M).
- Advanced buffer management, 802.1p support. 4 dispatching queues per port, mapping the 8 priority queues in 802.1p.
- QoS support.

TECHNICAL SPECIFICATIONS

Standard

- IEEE 802.1D STP, link path backup
- IEEE 802.1w RSTP
- IEEE802.1s MSTP
- IEEE 802.1x port-based user authentication
- Remote authentication through RADIUS
- Port Security
- MAC filtering
- Port+MAC binding

Interface

- Port & Slot:** 8 * 10/100M TX
2 * GSFP
1 * Console Port

Performance

- Switch Fabric:** 32Gbps
- Forwarding Rate:** All wire-speed forwarding and filtering
- Switching Mode:** Store-and-forward
- MAC Address Table Size:** 8 K
- Queuing Buffer:** 32 MB
- LED Indicators:** Power, system, link, activity, 10/100M
- VLAN:** Port-based VLAN, 802.1Q tag VLAN, GVRP, port isolation at per VLAN, QinQ
- VLAN Number:** 4K, partition at will
- Traffic Control:** Back pressure at half-duplex, 802.3x at full-duplex, port rate limiting: 64 K step size
- Storm Control:** Stop sending at threshold to restrict broadcast/multicast/unicast storms
- Multicast Control:** IGMP snooping
- Port Trunking:** Up to 3 groups with up to 8 ports per group, dynamic LACP aggregation
- Clustering:** Up to 256, manageable through single IP

QoS: 4 dispatching queues per port, mapping the 8 priority queues in 802.1p

Network Management:

- SNMP
- RMON
- Telnet
- Com-mand Line Interface (CLI)
- Support PRODIGY network management tools suite: Prodigy Director, and other general network management software

Software Upgrade: TFTP

Configuration Upload/download: TFTP

Power Requirements

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

Physical Characteristics

Dimensions (LxWxH) (mm):
PD1-S21-2101: 230x147x44mm

Environmental Limits

Operating Temperature: 0 ~ 50°C,
non-operating Temperature: -40 ~ 70°C
Humidity: 0 ~ 90% (no condensing)

Warranty

1 year

OPTIONAL ACCESSORIES

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

ORDERING INFORMATION

Model	Description
PD1-S21-2101	Network management Switch, 8 ports 10/100M TX +2 Gigabit SFP port