

PRODIGY LAYER 2 ACCESS SWITCH



PD1-S21-4481-C

Hi-performance Gigabit Ethernet Switch

PRODIGY

FEATURES

Performance

- 36Gbps switch fabric, wire-speed forwarding rate: 13.1 Mpps
- High port density. 48 Fast Ethernet ports, 2 Gigabit Ethernet ports, 2 Gigabit SFP slots
- 80-km transfer by Gigabit optical fiber, direct connection to WAN

Security and reliability

- IEEE 802.1x
- Powerful ACL supports L2-L7 data filtering
- Intelligent forwarding, complete defense against viruses like 'Code Red' or 'Blaster'
- QinQ support. Double VLAN security

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

Traffic and broadcast control

- Auto-detection and restraining of broadcast/multicast/DLF storm, IGMP snooping, effectively restrict broadcast flooding
- Full- and half- duplex traffic control
- Ethernet port rate limiting with 64K step size
- Ethernet port rate limiting at 1M step size
- QoS support
- Jumbo frame

TECHNICAL SPECIFICATIONS

Standard

- IEEE 802.1D STP
- IEEE 802.1w RSTP
- IEEE802.1s MSTP, PVST
- IEEE 802.1x port-based user authentication,

- QinQ double VLAN security.
- Port Security, static max.16 MAC addresses per port, dynamic max. 8K MAC address per port.
- Hardware support for IP ACL, MAC ACL, VLAN ACL
- 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.

Interface

- Port & Slot:** 48 * 10/100M TX
2 * 10/100/1000M TX
2 * GSFP slots
1 * Console Port

Performance

- Processor:** MPC 50MHz
FLASH: 4 MB
Memory: 64 MB
Switch Fabric: 36 Gbps
Forwarding Rate: 13.1 Mpps
Switching Mode: Store-and-forward
MAC Address Table Size: 8 K
L2 multicast groups Table : 4 K
Queuing Buffer: 64 MB
Jumbo frame: 2 K
802.1Q VLAN: 1 ~ 4094, partition at will
Stacking: Hardware stack upto 16 , software stack upto 32
LED Indicators: Power, system, link, activity, 10/100M
VLAN: Port-based VLAN, 802.1Q tag VLAN, Super VLAN, Private VLAN, GVRP dynamic VLAN configuration
Traffic Control: Back pressure at half-duplex, 802.3x at full-duplex, CAR support, 1M step size at 100M ports and 8M step size at 1000M ports
Storm Control: Broadcast, multicast, DLF
L2 Multicast: IGMP snooping
Port Trunking: Up to 6 groups with up to 8 ports per group, dynamic LACP or static aggregation
Port Mirroring: Supported. Can be based on flow classification
Clustering: Up to 256, manageable through single IP

QoS:

- Head Of Line (HOL) blocking prevention mechanism.
- 4 dispatching queues per port, mapping the 8 priority queues in 802.1p.
- WRR, WRR+SP(hybrid1), and FIFO queuing algorithms
- Best Effort Service
- Differentiated Service
- Strict Priority
- Weighted Round Robin
- First Come First Serve
- TOS re-tagging
- RTS

Network Management:

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

Software Upgrade:

TFTP/FTP

Configuration Upload/download:

TFTP/FTP

Power Requirements

- Power Consumption:** 40 W (max.)
Power input: AC 100~240 V, 47 ~ 63 Hz, 1A/230V, RPS power hot standby

Physical Characteristics

Dimensions (LxWxH) (mm): 442x385x44mm

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-S21-4481-C	Network management Switch, 48 ports 10/100M TX + 2 10/100/1000M TX +2 Gigabit SFP Module slots,
	PD1-S21-4481 variant

For enquires, please email to sales@terrabitnet.com