

ST-0248F Layer 2 Intelligent Switch 48-port 10/100Mbps + Option / Gigabit Intelligent Switch



▶ Feature

The PLANEX ST-0248F is the high performance Gigabit Ethernet switch solution that all networking professionals are seeking for: more powerful security managements, increasing bandwidth, eliminating network bottlenecks, user-friendly network management Web GUI, unique USB/RS232 Console ports and SFP slots, and remarkable flexibility required with port counts from 5 to 48 ports, Ethernet/Fast Ethernet/Gigabit Ethernet performance, desktop/stackable or chassis-based

■ Provides ports connectivity

- 48 10/100BASE-TX auto-sensing Fast Ethernet ports
- Two 10/100/1000BASE-T auto-sensing Gigabit Ethernet switching ports
- Two small form factor (SFP) Gigabit interface converter (GBIC) slots
- Automatic MDI/MDIX support for 10/100BASE-TX and 10/100/1000BASE-T ports
- Compliant with 802.3u, 802.3z and 802.3ab specifications

■ Intelligent function

- Web-based
- CLI (Console/Telnet)
- IGMP snooping support
- Firmware upgrade and configuration backup/restore by FTP and Web
- Dual code image
- SNMPv1,v2
- MIBs
 - MIB-II
 - Ethernet MIB
 - Bridge MIB
 - Private MIB (Temperature, Fan Speed and Voltage)

RMON groups (1,2,3,9)

- Status: Alarm

- History: Erent

■ The VLAN & QoS & CoS function

Terminals that are connected to this product can be grouped by 802.1Q-based tagged VLAN function which supports up to 255 groups. It is possible to create logical network segment not restricted by physically connected network structure.

Rule-based QoS support by two priority levels

802.1p class of service, 4 queues per port.

■ Supports Port Trunking

Its built-in Trunking function enhances switch-to-switch bandwidth by bundling multiple physical ports into one logical link. The bandwidth between any two switches supporting Trunk (or Trunking) can be improved significantly, and this scheme requires absolutely no additional high-speed interface.

ST-0248F can combine the maximum of 8 ports(up to 6 groups)

■ Supports Port Mirroring

The product supports port mirroring, a function that copies packets sent or received on a specific port to another port. A monitoring device such as Sniffer or Rmon probe can be attached to a port to analyze the details of the packets that pass through the source port. can be controlled the line state of many ports by single connection port by Egress and ingress way.

■ Higher Network Efficiency Achieved via Flow Control

Supports Flow Control (Full Duplex: IEEE802.3x, Half Duplex: Back Pressure), which prevents packet losses caused by mismatches between the sending and the receiving speeds (bandwidth). The switch utilizes this technology to allow the establishment of a highly efficient and reliable networking environment.

■ Security

The switch has the 802.1x port-based security feature. Only authorized hosts are allowed to access the switch port. Traffic is blocked for hosts failed to authenticate themselves. The authentication service is provided by a RADIUS server or the local database in the switch.

The switch also supports dynamic VALN assignment through 802.1x authentication process. The VLAN information for the users/ports should be configured in the authentication server properly before enabling this feature.

► Specification

Model Number	ST-0248F
Access Method	10/100/1000Mbps(CSMA/CD)
Supported Standards	802.ID : Spanning Tree Protocol 802.3 : 10BASE-T 802.3u : 100BASE-TX 802.3z : 1000BASE-SX 802.3z : 1000BASE-LX

	<p>802.3x : Flow Control</p> <p>802.1q : VLAN Tagging-based</p> <p>802.1p : COS</p> <p>802.3ad : Link Aggregation</p>
Supported Media	<p>UTP/STP Cable 10Mbps :Category 3 or greater 100Mbps :Category 5 or greater</p> <p>1000Mbps :Enhanced Category 5 or greater</p>
Port Configuration	<p>48 RJ-45 for 10 /100BASE-TX ports</p> <p>-2 RJ-45 for 10/100/1000BASE-T ports</p> <p>-2 SFP slots for 1000BASE-SX or 1000BASE-LX transceiver</p> <p>-Auto MDI/MDIX</p> <p>-Auto-negotiation: speed, duplex mode, flow control</p> <p>-Auto-disabling 1000BASE-T port when link of fiber is on</p>
Data Transfer mode	<p>Store-and-forward</p>
Filtering/Forwarding Rate	<p>For each port,</p> <p>10M:14,881pps</p> <p>100M:148,810pps</p> <p>1000M:1,488,100pps</p>
Management	<p>Web-based</p> <p>CLI (Console/Telnet)</p> <p>Firmware upgrade and configuration backup/restore by FTP and Web</p> <p>Dual code image</p> <p>SNMPv1,v2</p> <p>MIBs</p> <p>-MIB-II</p> <p>-Ethernet MIB</p> <p>-Bridge MIB</p> <p>-Private MIB (Temperature, Fan Speed, and Voltages)</p> <p>RMON groups (1,2,3,9)</p> <p>-Stats/-History</p> <p>-Alarms/-Events</p>
Flow Control	<p>Full Duplex: IEEE802.3X</p> <p>Half Duplex: Back Pressure</p>
Class of Service	<p>802.1p tagging</p> <p>Port based priority</p> <p>Four priority queues per port</p> <p>Layer 3 IP precedence and DSCP priority</p> <p>Layer 4 TCP/UDP-based priority</p>

IP Multicast Support	IGMP snooping
MAC Address	8,000 entries
Buffer Memory	8MB
Internal Bus Speed	13.6Gbps
VLAN	IEEE802.1Q Tagging VLAN(up to 256 groups)
Trunk	Supports 8-port,(up to 6 groups)
QoS	IEEE802.1p(2 levels)
Port Mirroring	Supported
MAC address filtering	Supported
ACL (Access Control List)	L2 to L4+ packet filtering and classifying.
Power Supply	100-240V AC/2.5A 50-60Hz
Power Consumption	90W Max
Redundant Power	Supported
Operating Temperature	0 to 50 °C
Operating Humidity	15% to 90% (Non-condensing)
Storage temperature	-25 to 70 °C
Dimension	43mm(H) X 440 mm(W) X 324mm(D)
Weight	4.36kg
19" rack-mounting	Supported
EMI	FCC Class A, CE Mark
Warranty period	3year
Package Contents	<p>ST-2048F (48-port) L2 managed switch</p> <p>AC Power cord</p> <p>Null modem cable for console interface (DB9)</p> <p>Rack installation kit (two brackets with six #6-32 screws)</p> <p>USB cable for console interface</p> <p>Installation CD-ROM</p> <p>Quick installation guide</p>

Product View

