

24 PORT LAYER2 MANAGED FAST ETHERNET SWITCH WITH 2GE COMBO PORTS



Model: TSW 1026XA



INTRODUCTION

The Telenet TSW1026XA L2/L4 Fast Ethernet Standalone Switch is equipped with 24 10/100BASE-T (RJ-45) ports, 2 Combo G (RJ-45/SFP) ports. The TSW1026XA is loaded with features such as VLAN,s, GVRP and IGMP, thus provides an easy-to-configure and easy-to-manage network environment. TSW1026XA is perfect for cost-sensitive medium to large network looking to strengthen its network connection.

HIGH PERFORMANCE

The unit comes equipped with high-performance architecture with a total capacity of 8.8 Gbps. The GVRP allows automatic configuration of VLAN and IGMP snooping to identify multicast traffic to make an efficient utilization of the switch bandwidth. It also allows to aggregate greater bandwidth between devices by supporting IEEE 802.3ad (LACP). In addition, the IEEE 802.1p four queues help to prioritize time-sensitive applications such as multimedia voice traffic.

SECURITY AND REDUNDANCY

Port-based MAC filtering prevents unauthorized user to access to the switch. IEEE 802.1D Spanning Tree Protocol support for loop-free networks improve fault tolerance and simplifies network configuration. In addition, RPU connectivity provides power fault tolerance to ensure a reliable system.

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COMPREHENSIVE MANAGEABILITY

The system can be managed and monitored via SNMP/RMON protocol through any computer using network management software or via an Internet web browser. Comprehensive LED indicators are located on the front panel to assist network administrators in troubleshooting. The Port Mirroring feature provides a non-intrusive mechanism for traffic inspection across the whole switch. With the help of our powerful management features the status of the Telenet Switch can be obtained at a glance.

FEATURES AND BENEFITS

L2/L4 Switching Feature

- Full-duplex mode on port 25 and 26 when work in the Gigabit speed.
- Auto MDI/MDIX on all 10/100 Base-TX ports
- Up to 8K MAC address entries
- 4M-bit for packet buffer size
- Provides flow control mechanism: backpressure for half duplex; IEEE802.3x for duplex operation
- Store-and-forward forwarding scheme
- HOL (Head of Line) blocking prevention
- Port mirroring

Provides Line Aggregation

- Up to 8 ports in on trunk
- Up to 4 trunk groups
- Trunks across switches
- Supports 802.3ad (LACP)
- Cisco Ether-channel (static truck)
- Load Balance for both Unicast and Multicast traffics

Supports VLAN

- IEEE 802.1Q tagging VLAN
- Port-based VLAN
- Up to 255 active VLAN,s
- GVRP protocol for automatic VLAN registration and dynamic VLAN management.

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Private VLAN

IGMP (v1/v2) Snooping and Query function

Broadcast Storm control

Spanning Tree protocol

- IEEE 802.1D Spanning and Query function
- IEEE 802.1w Rapid Spanning Tree
- Proprietary per port based Fast Forwarding mode.
- Jumbo Frame Support

Security Features

- RADIUS (Authentication)
- TACACS+
- SSL
- SSH (v1.5/v2.0)
- Access Control List
- Supports IEEE 802.1x port based security

Quality of Services

- L2/L3/L4 Traffic Classification/Priority Management
- CoS by IEEE 802.1p 4 priority queues control
- Traffic Classification/Priority Management based on IP Precedence/TOS & DSCP/TOS
- Traffic Classification/Priority Management based on TCP/UDP port number
- Supports WRR for priority queues
- Strict scheduling for priority queue
- Rate Limiting (Ingress & Egress based)
- Supports Random Early Detection (RED)

Management Features

- Supports SNMP v1/v2c
- Supports RMON (groups 1, 2, 3 and 9)
- Supports Web-based management
- Supports TELNET console interface
- Supports BOOTP and DHCP for IP address assignment.
- Supports Firmware upgraded by TFTP file transfer protocol through the Ethernet network.
- Supports Firmware image upgrade by TFTP protocol
- Supports dual Firmware images

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- Supports Configuration file upload/download by TFTP protocol
- Supports two or more Configuration files
- HP Open View (Windows)
- SNMP access IP filtering configuration MAC based port security
- Provides 1 Male DB9 RS-232C console interface configured as DTE for operation, diagnostics, status
- And configuration information.
- Provides Command Line Interface from the console port using a VT-100 terminal.
- Supports SNMP
- Event / Error Log

Specifications

Physical

- 24 RJ-45 10/100 Base-T ports
- 2 Combo G (RJ-45/SFP) ports

Memory & Processor

- Processor: ARM7/ 100 MHz
- Packet buffer 4 MB

Mechanical

- Dimension: 440 mm x 324 mm x 43 mm
- LED indicators: Port, Uplink, System, Diagnostic Performance

Performance

- Switch Fabric 8.8 Gbps
- MAC address: 8K
- Power Requirement
- Nominal Input Voltages: 110-240V
- Input Voltage Range: 12V
- Input Frequency: 47-63 Hz
- Power: 35 W

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Safety

- CSA/NRTL (UL 1950, CSA 22.2.950)
- TUV/GS (EN60950)

Electromagnetic Compatibility

- CE Mark
- FCC Class A
- VCCI Class A
- CISPR Class A

Environmental

- Temperature
- IEC 68-2-14
- 0°C to 40°C (Standard Operating)
- -40°C to 70°C (Non-operating)
- Humidity: 10% to 90% (Non-condensing)
- Vibration: IEC 68-2-36, IEC 68-2-6
- Shock IEC 68-2-29
- Drop IEC 68-2-32

IEEE Standards

- IEEE 802.3 10 BASE-T
- IEEE 802.3u 100BASE-TX and 100BASE-FX
- IEEE 802.3z [3] 1000BASE-SX
- IEEE 802.3ab 1000vase-T
- IEEE 802.ad Link Aggregation
- IEEE 802.3x Flow Control support
- IEEE 802.1p Priority support
- IEEE 802.3ac frame extension for VLAN tagging
- IEEE 802.1D (Bridging), 1993
- IEEE 802.1Q (Virtual LAN) 1998
- IEEE 802.1w Rapid Spanning Tree
- IEEE 802.1s per VLAN Spanning Tree

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