24-Port 10/100 Mbps Web Smart Switch

TEG-424WS (v2.0R)

- 24 x 10/100 Mbps ports
- 4 x Gigabit uplink ports
- 2 x shared SFP slots
- 12.8 Gbps switching capacity
- Advanced Web Smart management
- Fanless design reduces energy consumption and operating noise
- Rackmount brackets included
- Limited Lifetime Warranty

TRENDnet's fanless 24-Port 10/100 Mbps Web Smart Switch, model TEG-424WS, offers 24 x 10/100 Mbps ports, 4 x Gigabit uplink ports, 2 x shared SFP slots, and a 12.8 Gbps switching capacity. This IPv6 ready switch offers advanced traffic management, troubleshooting, access control, energy saving GREENnet, and monitoring features at a reduced cost.

Hardware

Hardware Design
Provides 24 x 10/100 Mbps ports, 4 x Gigabit ports, 2 x shared SFP slots, a 12.8 Gbps switching capacity, a built-in power supply, and rackmount brackets

Fanless
Fanless design reduces energy consumption and operating noise

IPv6 Ready
This switch supports IPv6 configuration and IPv6 neighbor discovery

Traffic Management
A broad range of network configurations are supported by: 802.3ad link aggregation, Asymmetric VLAN, 802.1Q VLAN, Voice VLAN, Private VLAN, Bandwidth Controls, GVRP, IGMP v1-v3, 802.1p Class of Service (CoS), Spanning Tree (STP, RSTP, and MSTP), and QoS queue scheduling

Troubleshooting
Real time traffic comparison charts, error group charts, and a convenient cable diagnostic test aid in rapid troubleshooting
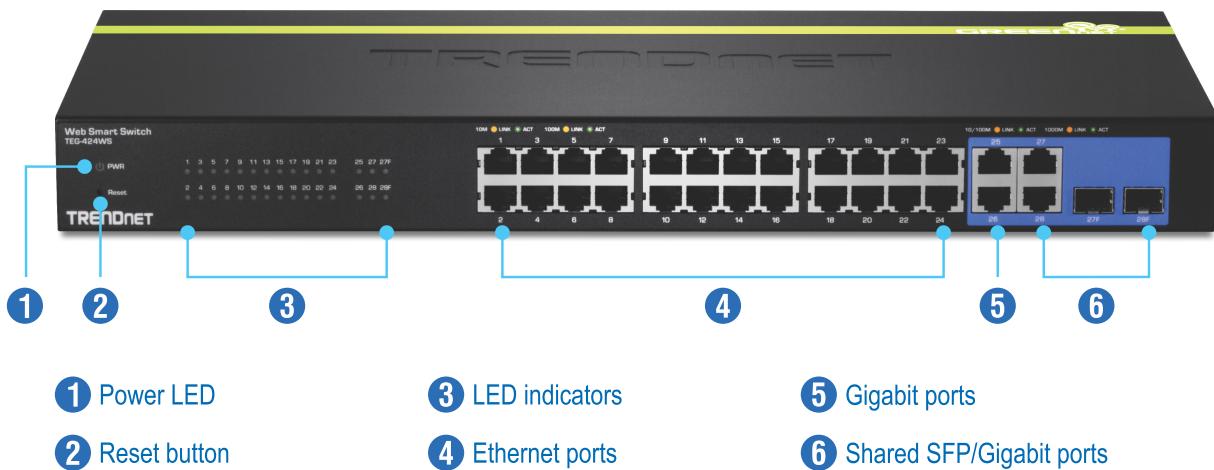
Access Controls
Features such as ACL, SSL, MAC/port filtering, Denial of Service controls, 802.1X, TACACS+, and RADIUS are compatible with layered network access controls

Monitoring
RMON, SNMP, SNMP Trap, and Port Mirroring support administrator monitoring solutions

Networking Solution

1. Power LED
2. Reset button
3. LED indicators
4. Ethernet ports
5. Gigabit ports
6. Shared SFP/Gigabit ports

Specifications

Standards
- IEEE 802.1d
- IEEE 802.1p
- IEEE 802.1Q
- IEEE 802.1s
- IEEE 802.1w
- IEEE 802.1X
- IEEE 802.1ab
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3z
- IEEE 802.3ab
- IEEE 802.3ad
- IEEE 802.3az

Device Interface
- 24 x 10/100 Mbps ports (ports 1-24)
- 4 x Gigabit ports (25-28)
- 2 x Shared SFP slots (shared with ports 27-28)
- LED indicators

Data Transfer Rate
- Ethernet: 10 Mbps (half duplex), 20 Mbps (full duplex)
- Fast Ethernet: 100 Mbps (half duplex), 200 Mbps (full duplex)
- Gigabit Ethernet: 2000 Mbps (full duplex)

Performance
- Switch fabric: 12.8 Gbps
- RAM buffer: 512 KB
- MAC Address Table: 8K entries
- Jumbo Frames: 10 KB
- HOL Blocking Prevention
- Forwarding rate: 9.5 Mpps (64-byte packet size)

Management
- HTTP/HTTPS (SSL v2/3 TLS) Web based GUI
- SNMP v1, v2c, v3
- RMON v1
- Static Unicast MAC Address
- Enable/disable 802.3az Power Saving
- LLDP
- Virtual Cable Test
- IPv6: IPv6 Neighbor Discovery, IPv6 Static IP
- DHCPv6, Auto configuration

MIB
- MIB II RFC 1213
- Bridge MIB RFC 1493
- Bridge MIB Extension RFC 2674
- SNMPv2 MIB RFC 1907

- Ethernet Interface MIB RFC 1643
- Ethernet –like MIB RFC 2863
- Interface Group MIB RFC 2233
- MIB Traps Convention RFC 1215
- RMON MIB RFC 1757, RFC 2819
- 802.1p MIB RFC 2674
- RADIUS Client Authentication MIB RFC 2618
- LLDP-MIB IEEE 802.1ab
- Ping MIB RFC 2925, RFC 4560

Spanning Tree
- IEEE 802.1D STP (Spanning Tree protocol)
- IEEE 802.1w RSTP (Rapid Spanning Tree protocol)
- IEEE 802.1s MSTP (Multiple Spanning Tree protocol)

Link Aggregation
- Static Link Aggregation
- 802.3ad Dynamic LACP

Quality of Service (QoS)
- 802.1p Class of Service (CoS)
- DSCP (Differentiated Services Code Point)
- Bandwidth Control per port
- Queue Scheduling: Strict Priority, Weighted Round Robin (WRR)

VLAN
- Multiple management VLAN assignment
- Asymmetric VLAN
- 802.1Q Tagged VLAN
- Dynamic GVRP
- Up to 256 VLAN groups, ID Range 1-4094
- Private VLAN (Protected Ports)
- Voice VLAN (10 user defined OUIs)

Multicast
- IGMP Snooping v1, v2, v3 (per VLAN)
- Static Multicast Address
- Up to 256 multicast entries

Port Mirror
- RX, TX, or Both
- One to one

Access Control
- 802.1X Port-Based Network Access Control, RADIUS, TACACS+
- Local Dial In User Authentication
- DHCP Snooping (per VLAN)
- Loopback Detection
- Duplicated Address Detection
- Trusted Host
- Denial of Service (DoS)

ACL IPv4 L2-L4 & IPv6
- MAC Address
- VLAN ID
- Ether Type (IPv4 only)
- IP Protocol 0-255
- TCP/UDP Port 1-65535
- 802.1p
- DSCP (IPv4 only)
- IPv6 Address (IPv6 only)

Compatibility
- Optional Software Utility: Windows® 8.1, 8, 7, Vista, XP, Windows® 2003/2008 Server

Special Features
- Fanless Design
- IPv6
- 802.3az power saving
- Rack mountable

Power
- Input: 100 - 240 V AC, 50/60 Hz, internal power supply
- Consumption: 11.56 Watts (max.)

Fan/Acoustics
- Fanless design

MTBF
- 395,811 hours

Operating Temperature
- 0 – 45°C (32 - 113°F)

Operating Humidity
- Max. 90% non-condensing

Dimensions
- 440 x 210 x 44.45 mm (17.3 x 8.27 x 1.75 in.)
- Rack mountable 1U height

Weight
- 1.78 kg (3.92 lbs.)

Certifications
- CE
- FCC

Warranty
- Limited Lifetime Warranty

Package Contents
- TEG-424WS
- Quick Installation Guide
- CD-ROM (Utility & User's Guide)
- Power cord (1.8 m/6 ft.)
- Rack mount kit

TRENDnet offers a limited lifetime warranty for all of its metal-enclosed network switches that have been purchased in the United States/Canada on or after 1/1/2015. Cooling fan and internal power supply carry a one-year warranty.