



## 12-Port 10G Web Smart Switch

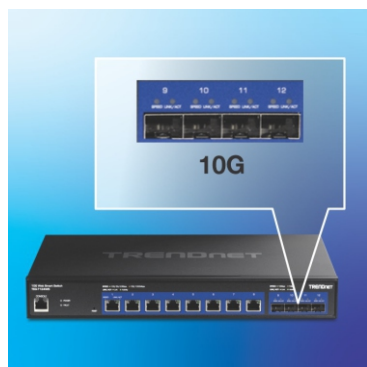
TEG-7124WS (v2.xR)

- 8 x 10G ports
- 4 x SFP+ ports
- Supports 1G/2.5G/10G link speeds
- Easy-to-use web-based management interface
- Supports IPv6, LACP, VLAN, QoS, and IGMP Snooping
- Bandwidth control per port
- Private and Voice VLAN support
- 240Gbps switching capacity
- IEEE 802.1p QoS with queue scheduling support
- 1U 19" rack mountable metal housing
- Lifetime Warranty

TRENDnet's 12-Port 10G Web Smart Switch, model TEG-7124WS, offers advanced traffic management controls to meet the evolving demands of SMB networks. This rack mountable IPv6-ready 10Gb managed switch comes with an easy-to-use, intuitive web-based interface. Management features include LACP to increase bandwidth between switches, VLANs for segmenting and isolating virtual LAN groups, QoS for traffic prioritization, port bandwidth controls, and SNMP monitoring, making this a powerful solution for any SMB network. Improve voice performance by isolating and prioritizing VoIP traffic from normal data traffic with an easy-to-use voice VLAN feature.

Free up router resources by offloading routing processes to this 10Gb managed switch by using the L2+ IPv4/IPv6 static routing feature to efficiently route traffic at the switch level. The dynamic ARP inspection feature helps protect connected devices from man-in-the-middle attacks. Take advantage of the available multicast and IGMP/MLD snooping features to optimize IP surveillance system performance, and minimize network traffic.

This 12-Port 10G managed switch also features eight 10GBASE-T Ethernet ports, and four 10G SFP+ ports for long-distance, high-speed fiber network connections, providing a cost-effective solution in adding 10G link capability to an SMB network.



## High-Speed 10GBASE-T and 10G SFP+

Offers eight 10GBASE-T Ethernet ports, and four 10G SFP+ ports for high-speed network connections providing a cost-effective solution in adding 10G link capability to an SMB network.



## Web Smart Management

Provides an easy-to-use web-based management GUI for reduced switch configuration complexity, and offers a combination of SMB management features for easy deployment.



## Integration Flexibility

Managed features include access control lists, VLAN, IGMP snooping, QoS, RMON, SNMP trap, and syslog for monitoring for flexible network integration.

## NETWORKING SOLUTION



## FEATURES



### Hardware Design

Provides eight 10G ports, four 10G SFP+ ports, a 240Gbps switching capacity, a built-in power supply, and rackmount brackets



### IPv6 Ready

This 10G managed switch supports IPv6 configuration and IPv6 neighbor discovery



### Traffic Management

A broad range of network configurations on the 10GbE managed switch are supported by: 802.3ad link aggregation, Asymmetric VLAN, 802.1Q VLAN, Voice VLAN, RSTP, MSTP, Loopback Detection, GVRP, 802.1p Class of Service (CoS), port bandwidth management, and QoS queue scheduling



### Troubleshooting

A convenient cable diagnostic test and traffic statistics aid in network troubleshooting the 10G managed switch



### Access Control

Features such as ACL, SSL, MAC/port filtering, 802.1X, TACACS+, and RADIUS are compatible with layered access controls



### Monitoring

The 10Gb managed switch features RMON, SNMP, SNMP Trap, and Port Mirroring, supporting administrator monitoring solutions

## 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 802.3ae
- IEEE 802.3an
- IEEE 802.3az
- IEEE 802.3bz

### Device Interface

- 8 x 10G ports
- 4 x 10G SFP+ ports
- LED indicators
- Reset button
- Console port

### Management

- CLI (Telnet / SSHv2) for basic administration
- HTTP/HTTPS (SSL v2/3 TLS version#) Web based GUI
- SNMP v1, v2c, v3
- RMON v1
- Static Unicast MAC Address
- Enable/disable 802.3az Power Saving
- LLDP and LLDP-MED
- Virtual Cable Diagnostics Test
- IPv6: IPv6 Neighbor Discovery, IPv6 Static IP, DHCPv6, Auto configuration
- Dual image and configuration

### MIB

- RMON MIB RFC 1271
- LLDP MIB IEEE 802.1ab
- RFC 1213 MIB II
- RFC 1643 Ethernet intf MIB
- RFC 1493 bridge MIB

### 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)

### Port Mirror

- RX, TX, or Both
- Many to one

### Access Control

- 802.1X Port-Based Network Access Control, RADIUS, TACACS+
- Local Dial-In User Authentication
- DHCP Snooping
- Loopback Detection
- Trusted Host
- Denial of Service (DoS)
- IP MAC port binding
- Block unknown multicast

### ACL IPv4 L2-L4 & IPv6

- MAC Address
- VLAN ID
- Ether Type (IPv4 only)
- IP Protocol 0-255
- TCP/UDP Port 1-65535
- 802.1p
- TOS (IPv4 only)
- IPv4 Address and Mask (IPv4 only)
- IPv6 Address and Prefix Length (IPv6 only)

**Data Transfer Rate**

- Gigabit Ethernet: 2000Mbps (full duplex)
- 2.5G Ethernet: 5000Mbps (full duplex)
- 10G Ethernet: 20Gbps (full duplex)
- SFP: 2000Mbps (full duplex)
- SFP+: 20Gbps (full duplex)

**Performance**

- Switch fabric: 240Gbps
- RAM buffer: 2MB
- MAC Address Table: 32K entries
- Jumbo Frames: 10KB
- HOL Blocking Prevention
- Forwarding rate: 178.56Mpps (64-byte packet size)

**Operating Humidity**

- Max. 90% non-condensing

**Dimensions**

- 325 x 230 x 44mm (12.80 x 9.06 x 1.74 in.)
- Rack mountable 1U height

**Weight**

- 1.96kg (4.31 lbs.)

**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**

- 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
- MLD Snooping v1, v2
- IGMP fast leave
- Up to 256 multicast entries

**Certifications**

- CE
- FCC
- UL

**Layer 3 Features**

- IPv4 / IPv6 static routing
- IP interfaces: Up to 6
- Routing table entries: Up to 32 (IPv4 / IPv6)
- ARP table (up to 128 entries)
- Inter-VLAN routing

**Power**

- Input: 100 – 240V AC, 50/60Hz, internal power supply
- Max. consumption: 48W

**Fan/Acoustics**

- Quantity: 3
- Smart Fans
- Noise Level: 39 dBA (max.)

**MTBF**

- 53,900 hours

**Operating Temperature**

- 0° – 50° C (32° – 122° F)

**Warranty**

- Lifetime Warranty

**Package Contents**

- TEG-7124WS
- Quick Installation Guide
- Power cord (1.8m/6 ft.)
- Rackmount kit
- Console cable (1m / 3.28 ft.)

All references to speed are for comparison purposes only. Product specifications, size, and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

TRENDnet offers a 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.