



10-Port Multi-Gig Web Smart Switch

TEG-3102WS (v1.0R)

- 8 x 2.5GBASE-T ports
- 2 x 10 SFP+ slots
- IEEE 802.3bz (2.5G) compliant
- IEEE 802.3ae (SFP+) compliant
- Backwards compatible with 100/1000BASE-T devices
- Easy-to-use web-based management interface
- Supports IPv6, LACP, VLAN, QoS, and IGMP Snooping
- Bandwidth control per port
- Private, Multicast, and Voice VLAN support
- 80Gbps switching capacity
- Lifetime Warranty
- NDAA / TAA compliant (U.S. and Canada only)

TRENDnet's Multi-Gigabit Web Smart Switch series offers advanced L2+ features with enhanced traffic management controls to meet the evolving demands of today's SMB networks. These rack-mountable IPv6-ready managed switches each come with an intuitive web-based interface. Advanced managed switch features include LACP to increase bandwidth between switches by grouping ports together, VLANs for segmenting and isolating virtual LAN groups, QoS for traffic prioritization, port bandwidth controls, and SNMP monitoring, making these 2.5G managed switches with 10G SFP+ slots powerful solutions 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.

These multi-gigabit managed switches come equipped with 2.5GBASE-T RJ-45 ports that provide higher gigabit speeds capable of up to 2.5Gbps over your existing Cat5e or better cabling. The multi-gig managed switches also each offer two dedicated 10G SFP+ slots for high-speed network connections, providing a cost-effective solution in adding 10G link capability to an SMB network. The design of the switches lowers energy consumption and eliminates distracting operating noise. TRENDnet's reliable 2.5G managed switches with 10G SFP+ slots offer cost-effective solutions to increase your network's throughput.



10G SFP+ Slots

Offers two 10G SFP+ slots for high-speed network connections providing a cost-effective solution in adding 10G link capability.



2.5G Ports

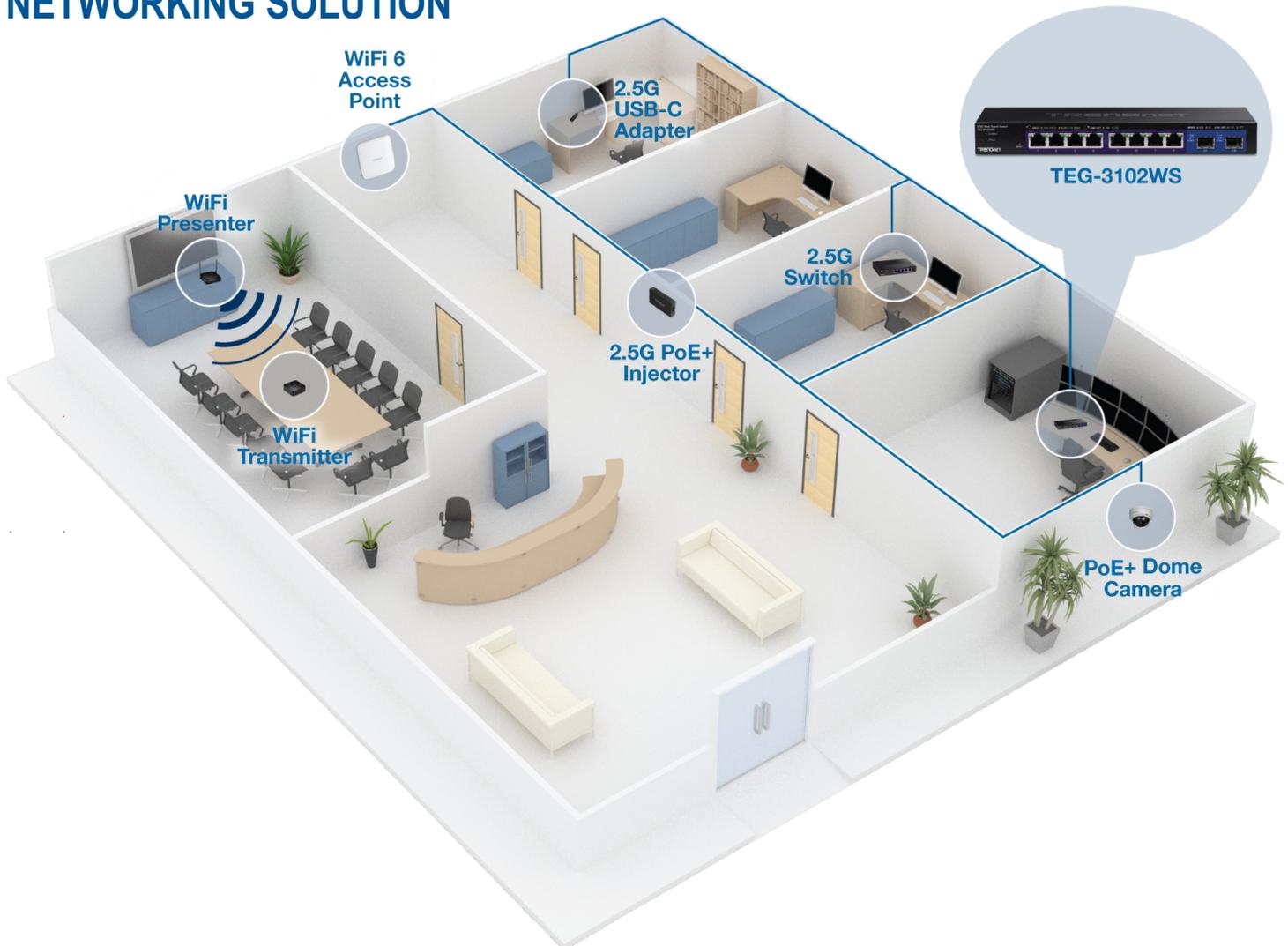
Equipped with eight 2.5GBASE-T RJ-45 ports that provide multi-gigabit speeds capable of up to 2.5Gbps over existing Cat5e or better cabling.



Web Smart Management

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

NETWORKING SOLUTION



FEATURES

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Easy Installation
No configuration needed, simply connect network devices to the 2.5G Ethernet switch



2.5G Ports
Equipped with eight 2.5GBASE-T RJ-45 ports that provide higher gigabit speeds capable of up to 2.5Gbps over existing Cat5e or better cabling



10G SFP+ Slots
Offers 10G SFP+ slots for high-speed network connections providing a cost-effective solution in adding 10G link capability.
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IPv6 Ready
This switch supports IPv6 configuration and IPv6 neighbor discovery



Troubleshooting
A convenient cable diagnostic test and traffic statistics aid in network troubleshooting



Web Smart Management
Provides an easy-to-use web-based GUI management for reduced switch configuration complexity and offers a combination of SMB management features for easy deployment.
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Access Control
Features such as ACL, SSL, MAC/port filtering, 802.1X, TACACS+, and RADIUS are compatible with layered access controls



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



Traffic Management
A broad range of network configurations 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
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Housing Design
Sturdy metal housing



Jumbo Frame
Sends larger packets, or Jumbo Frames (up to 10KB) for increased performance
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Integration Flexibility
Managed features include access control lists, VLAN, IGMP snooping, QoS, RMON, SNMP trap, and syslog for monitoring and flexible network integration.



LED Indicators
LED indicators on this multi-gig switch conveys port status



SPECIFICATIONS

Standards

- IEEE 802.1d
- IEEE 802.1p
- IEEE 802.1Q
- IEEE 802.1s
- IEEE 802.1w
- IEEE 802.1X
- IEEE 802.1ab
- IEEE 802.3x
- IEEE 802.3z
- IEEE 802.3ab
- IEEE 802.3ad
- IEEE 802.3ae
- IEEE 802.3az
- IEEE 802.3bz

Device Interface

- 8 x 2.5G Ports
- 2 x 10G SFP+ slots
- LED indicators

Data Transfer Rate

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

Performance

- Switch fabric: 80Gbps
- RAM buffer: 1.5MB
- MAC Address Table: 16K entries
- Jumbo Frames: 10KB
- HOL Blocking Prevention
- Forwarding rate: 59.52Mpps (64-byte packet size)

Management

- CLI (Telnet / SSHv2) for basic administration
- 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 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)

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

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)

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: 152.3W

Fan/Acoustics

- Fanless

MTBF

- 893,944 hours

Operating Temperature

- -0° – 40° C (32° – 104° F)

Operating Humidity

- Max. 95% non-condensing

Dimensions

- 240 x 104 x 27mm (9.45 x 4.09 x 1.06 in.)

Weight

- 664g (1.46 lbs.)

Certifications

- CE
- FCC

Warranty

- Lifetime Warranty

Package Contents

- TEG-3102WS
 - Quick Installation Guide
 - Power adapter (12V 1.5A)
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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.