

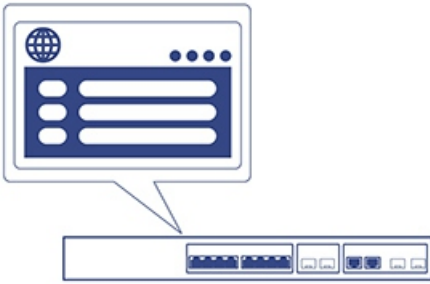


## 12-Port 10G Web Smart Switch with 8 x 10GBASE-T ports including 2 x 10G SFP+ slots and 2 x shared 10GBASE-T / 10G SFP+ slots

TEG-40128 (v1.0R)

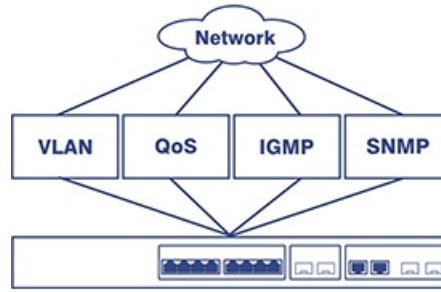
- 8 x 10GBASE-T ports, 2 x 10G SFP+ slots, and 2 x 10GBASE-T / 10G SFP+ shared ports
- Easy to use web-based management interface
- 240 Gbps switching capacity
- 802.1Q, Dynamic GVRP, Private, and Voice VLAN
- IGMP v1, v2, v3 snooping
- STP, RSTP, and MSTP spanning tree protocols
- SNMP (v1, v2c, v3), SNMP Trap, RMON, port mirror, syslog, and SMTP alert
- ACLs, MAC filtering, DoS, and 802.1X / TACACS+ network access control
- 802.1p / DSCP / Queue Scheduling QoS support
- Smart fans reduce energy consumption and auto adjust for efficiency

TRENDnet's 12-Port 10G Web Smart Switch with 8 x 10GBASE-T ports including 2 x 10G SFP+ slots and 2 x shared 10GBASE-T / 10G SFP+ slots, model TEG-40128, is a cost-effective switch for high-speed network uplinks or downlink server connections. A convenient web-based management interface offers features for traffic control, troubleshooting, access control, and monitoring allowing for network integration flexibility into an SMB network.



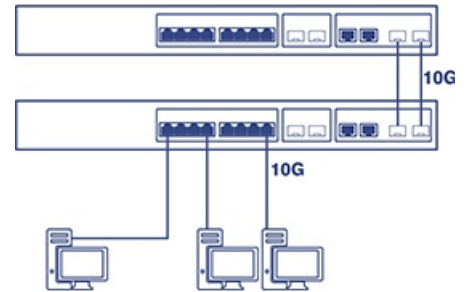
### Web Smart Management

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



### Integration Flexibility

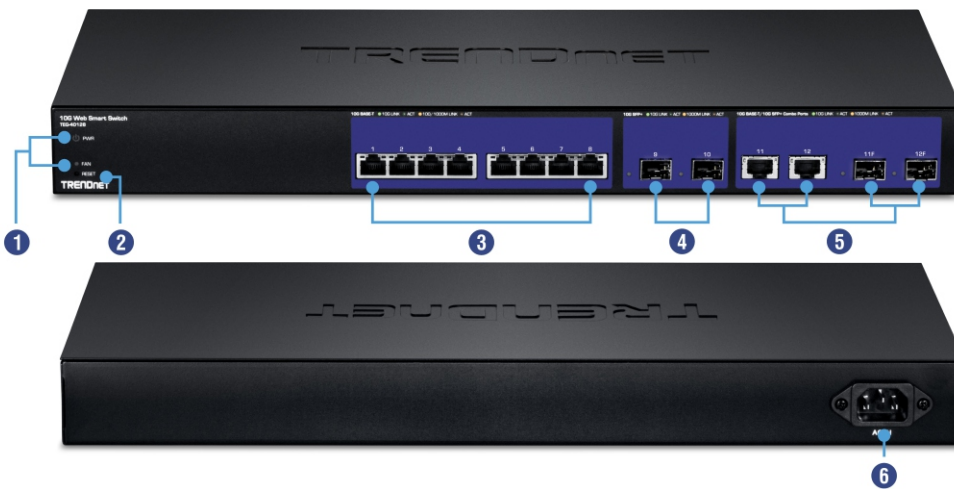
Managed features include access control lists, VLAN, IGMP snooping, QoS, RMON, SNMP trap and syslog for monitoring and flexible network integration.



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

Offers eight 10GBASE-T Ethernet ports, two 10G SFP+ slots, and two 10GBASE-T / 10G SFP+ shared ports for high-speed network uplinks or downlink NAS / access server connections providing a cost-effective solution in adding 10G link capability to an SMB network.

## Networking Solution



- ① LED indicators
- ② Reset button
- ③ 10GBASE-T ports
- ④ 10G SFP+ slots
- ⑤ 10GBASE-T ports / 10G SFP+ shared slots
- ⑥ Power port



### Hardware

Provides 8 x 10GBASE-T ports, 2 x 10G SFP+ slots, and 2 x 10GBASE-T / 10G SFP+ shared ports for high-speed network uplinks or downlink server connections, and 1U rack mountable.



### Smart Fans

Smart fans saves energy by auto-adjusting the fan speed and use based on cooling needs.



### 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, 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.

## Specifications

### Standards

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

### Device Interface

- 8 x 10GBASE-T ports
- 2 x 10G SFP+ slots
- 2 x 10GBASE-T ports / 10G SFP+ shared slots
- LED indicators

### Data Transfer Rate

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

### Performance

- Switch fabric: 240 Gbps
- RAM buffer: 2 MB
- MAC Address Table: 16K entries
- Jumbo Frames: 10 KB
- HOL Blocking Prevention
- Forwarding rate: 178.6 Mpps (64-byte packet size)

### Management

- Dual Image Configuration
- 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 OUs)

### 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
- Many 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® 10, 8.1, 8, 7, Vista, XP, Windows® 2003 / 2008 Server

### Special Features

- High speed 10GBASE-T & 10G SFP+
- IPv6
- Rack mountable

### Power

- Input: 100 - 240 V AC, 50/60 Hz, internal power supply
- Consumption: 90.81 Watts (max.)

### Fan / Acoustics

- Quantity: 2
- Noise Level: 53 dB(A) (max.)

### MTBF

- 217,863 hours

### Operating Temperature

- 0 – 50 °C (32 - 122 °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

- 3.18 kg (7.01 lbs.)

### Certifications

- CE
- FCC
- UL

### Warranty

- Limited Lifetime Warranty\*

### Package Contents

- TEG-40128
- 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.

