TRENDnet

28-Port Layer 2 Managed SFP Switch with 10G SFP+ Ports

TL2-F70284 (v1.xR)

- 24 x Gigabit SFP ports (100Mbps/1Gbps)
- 4 x 10G SFP+ ports (1Gbps/10Gbps)
- Supports 100Mbps/1Gbps link speeds on Gigabit SFP ports
- Support 1Gbps/10Gbps link speeds on 10G SFP+ ports
- Web-based and CLI management
- Supports IPv6, LACP, VLAN, and IGMP Snooping
- 802.1Q tagged-based VLAN, GVRP, and Voice VLAN support
- QoS with queue scheduling support
- Supports inter-VLAN routing and IPv4/IPv6 static routing
- Smart fans
- 128Gbps switching capacity
- Supports TRENDnet's RJ-45 copper and fiber SFP modules
- Lifetime Warranty

TRENDnet's 28-Port Layer 2 Managed SFP Switch with 10G SFP+ Ports, model TL2-F70284, offers advanced traffic management controls to meet the evolving demands of SMB networks. This rack-mountable IPv6-ready managed SFP switch comes with an intuitive web-based interface. Advanced management features on this managed SFP switch 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; it is fully manageable through the console port, 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 the SFP switch by using the L2+ IPv4/IPv6 static routing feature to efficiently route traffic at the switch level. Take advantage of the available multicast and IGMP/MLD snooping features to minimize network traffic, as well as optimize IP surveillance system performance.

TRENDnet's Layer 2 Managed SFP Switch features four 10GSFP+ slots for high-speed network connections, providing a cost-effective solution in adding 10G link capability to an SMB network.

VLAN QoS IGMP RSTP

High-Speed 1G SFP and 10G SFP+

Offers 24 x 1G SFP ports and 4 x 10G SFP+ ports for high-speed, long-distance network connections, providing a cost-effective solution in adding 10G link capability to an SMB network.
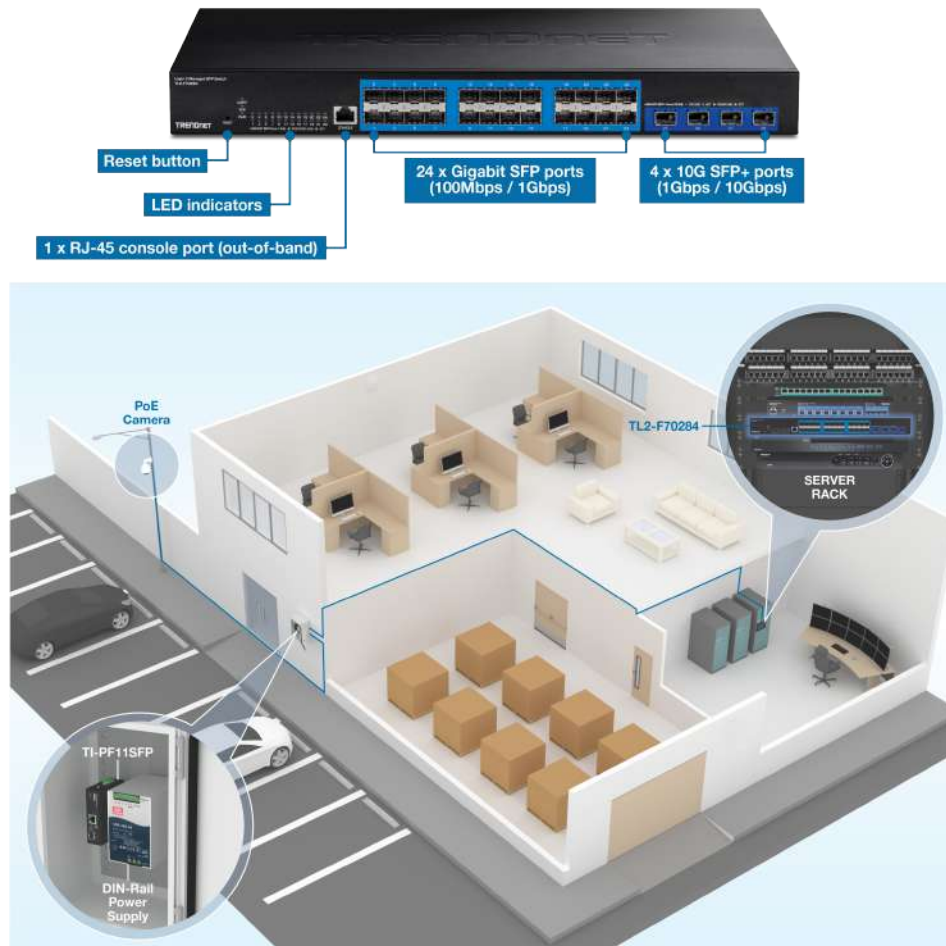
L2 Management

Fully configurable using the web-based management interface or CLI for management flexibility and streamlining configuration deployment to multiple switches.

Integration Flexibility

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

NETWORKING SOLUTION

Reset button

LED indicators

1 x RJ-45 console port (out-of-band)

24 x Gigabit SFP ports (100Mbps / 1Gbps)

4 x 10G SFP+ ports (1Gbps / 10Gbps)

PoE Camera

TL2-F70284

SERVER RACK

TI-PF11SFP

DIN-Rail Power Supply

TRENDNET®

FEATURES

Hardware Design
The managed fiber switch provides 24 x 1G SFP ports and 4 x 10G SFP+ ports, a built-in power supply, and 1U rackmount brackets

10G SFP+ ports
Offers four dedicated 10G SFP+ ports for high-speed network connections, providing a cost-effective solution in adding 10G link capability to an SMB network

Traffic Management
Managed switch features include: Link aggregation, 802.1Q VLAN, Voice VLAN, Multicast VLAN, RSTP, MSTP, Loopback Detection, QoS, and port bandwidth management

Jumbo Frame
Sends larger packets, or Jumbo Frames (up to 12KB), for increased performance

IPv4/IPv6 Static Routing
Offload routing processes to the managed SFP switch by using the L2+ IPv4/IPv6 static routing feature to efficiently route traffic at the switch level

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

Access Control
Features such as IPv4/IPv6 ACL, port security (mac entry restriction), 802.1X, TACACS+, and RADIUS are compatible with layered access controls

Monitoring
RMON, SNMP, SNMP Trap, Port Mirroring, and DDM are supported on the SFP switch

TRENDnet®

SPECIFICATIONS

Standards
- IEEE 802.1p
- IEEE 802.1Q
- IEEE 802.1s
- IEEE 802.1w
- IEEE 802.1X
- IEEE 802.1v
- IEEE 802.1ab
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3ab
- IEEE 802.3ae
- IEEE 802.3ad
- IEEE 802.3z

Device Interface
- 24 x Gigabit SFP ports (100Mbps / 1Gbps)
- 4 x 10G SFP+ ports (1Gbps / 10Gbps)
- 1 x RJ-45 console port (out-of-band)
- LED indicators
- Reset button

Data Transfer Rate
- Fast Ethernet SFP: 200Mbps (full duplex)
- Gigabit SFP: 2000Mbps (full duplex)
- 10G SFP+: 20Gbps (full duplex)

Performance
- Switching capacity: 128Gbps
- RAM buffer: 2MB
- MAC address table: 32K entries
- Jumbo frames: 12KB
- Forwarding mode: store and forward
- Forwarding rate: 95.2Mpps (64-byte packet size)

MTBF
- 412,539 hours

Operating Temperature
- 0° – 50° C (32° – 122° F)

Operating Humidity
- Max. 90% non-condensing

Dimensions
- 440 x 270 x 44mm (17.3 x 10.63 x 1.73 in.)
- Rack mountable 1U height

Management
- CLI (Console / Telnet / SSH)
- GUI (HTTP / HTTPS)
- IPv4/IPv6
- DNS
- TFTP/HTTP firmware upgrade
- TFTP/HTTP backup and restore configuration
- SNMP v1, v2c, v3
- SNMP trap
- RMON groups 1/2/3/9
- LLDP
- ICMPv4/ICMPv6
- Trace Route IPv4/IPv6
- Simple Network time protocol (SNTP)
- Dual image (Active/Backup)
- SNTP
- System Log (Local/Download/Remote Syslog)
- MAC entries (Static/Dynamic)
- ARP entries (Static/Dynamic)
- IPv6 neighbor discovery entries (Static/Dynamic)
- Port mirror (One to one, many to one)
- Port statistics counter
- Loopback detection
- CPU/Memory Utilization
- Real-time port statistics
- Ping watchdog
- DDM (Digital Diagnostic Monitoring)

MIB
- RMON MIB RFC 1757
- MIB II RFC 1213
- Ethernet Interface MIB RFC 1643
- Bridge MIB RFC 1493
- RFC1215 Generic Trap

Spanning Tree
- Spanning tree protocol (STP)
- Rapid spanning tree protocol (RSTP)
- Multiple spanning tree protocol (MSTP)

Link Aggregation
- Static link aggregation
- Dynamic LACP (Up to 8 groups)

Quality of Service (QoS)
- Class of service (CoS)
- Differentiated Services Code Point (DSCP)
- Bandwidth control per port/rate limiting
- Queue scheduling: strict priority (SP), weighted round robin (WRR)

Storm Control
- Broadcast (Min. limit: 64pps)
- Multicast (Min. limit: 64pps)
- Destination Lookup Failure (DLF) (Min. limit: 64pps)

VLAN
- 802.1Q tagged VLAN
- GVRP (GARP VLAN Registration Protocol)
- Up to 256 VLAN groups, ID range 1-4094
- Protocol VLAN
- MAC VLAN
- Private VLAN

L3 Features
- IPv4 / IPv6 static routing
- IPv4 interfaces: Up to 15
- IPv6 interfaces: Up to 15
- Routing table entries: IPv4: 32 max. / IPv6: 32 max.
- Default route entries: 1 (IPv4 / IPv6)
- ARP table (up to 512 entries)
- Inter-VLAN routing

Multicast
- IGMP snooping v1, v2, v3
- MLD Snooping v1, v2
- IGMP/MLD fast leave and querier
- IGMP/MLD dynamic router port, and report suppression
- Multicast filtering
- Up to 256 multicast groups

Access Control
- 802.1X authentication (Local, RADIUS IPv4/IPv6, TACACS+ IPv4/IPv6)
- 802.1X RADIUS/Guest VLAN assignment, MAC-based authentication
- DHCP snooping/binding
- Dynamic ARP inspection
- Port Security/MAC address learning restriction (Up to 256 entries per port)
- Denial of Service (DoS)

Power
- Input: 100 – 240V AC, 50/60 Hz
- Max. consumption: 38.4W

Fan/Acoustics
- Quantity: 3
- Smart Fans
- Noise Level: 52.9 dBa (max.)

Weight
- 3.82kg (8.42 lbs.)

Certifications
- CE
- FCC
- ETL

Package Contents
- TL2-F70284
- Quick Installation Guide
- Power cord
- RJ-45 to RS-232 console cable (1.5m / 5 ft.)
- Rackmount kit

Warranty
- Lifetime Warranty

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.