TP-LINK®

Gigabit Uplink Web Smart Switch
TL-SL2452WEB

- *Simplified web-based user management for more intelligent networking*
- *Cost-effective networking solution for small and medium business*
- *Rate limiting and multicast support provide advanced traffic management*
- *Advanced QoS enables the network to be optimized for your multicast applications, including voice (IPTV, VoIP), video and data storage*

Discription:

- **Overview**
  TP-LINK's Gigabit Uplink WEB Smart Switch TL-SL2452WEB is a cost-effective networking solution for growing businesses and adding multimedia applications. It is equipped with (48) 10/100BASE-TX ports, (2) 10/100/1000BASE-T UTP/STP RJ45 ports with auto-MDI/MDIX and (2) SFP independence expansion slots supporting MiniGBIC modules. The TL-SL2452WEB delivers a high performance feature set sufficient to monitor and secure a SMB network efficiently. It provides Smart features that are ideal for simple QoS applications, such as IPTV, VoIP.

- **Smart Features**
  The auto features of this switch make installation plug & play and hassle-free. Auto-MDI/MDI-X crossover on all ports eliminates the need for crossover cables for connection to another switch or hub. Auto-Negotiation on each port senses the link speed of a network device (either 10 or 100 or 1000) and intelligently adjusts for compatibility and optimal performance. The TL-SL2452WEB also features diagnostic LEDs, which display status and activity, allowing you to quickly detect and correct problems on the network. It features a non-blocking wire-speed architecture with an 17.6Gbps switching capacity for maximum data throughput. With wire-speed filtering and store-and-forward switching, the

Web-Smart switch also maximizes network performance while minimizing the propagation of bad network packets.

- **Excellent QoS Performance**
  Businesses are recognizing the benefits of doing Voice over IP (VoIP) and are quickly migrating their voice services to IP based platforms, requiring their local area networks to support both voice and data applications. In unmanaged IP networks, burst data sessions can disrupt voice packet delivery, causing poor voice quality. With the enhanced QoS and traffic management features in the TL-SL2452WEB, voice data can be prioritized, ensuring clear and reliable voice communications.

- **IEEE 802.1Q VLAN tagging and MTU VLAN supported**
  Network security is a top priority in any size business. VLANs allow the network to be segmented into groups (Departmental, Hierarchical, and Security Groups). It enhances the security of a network. 802.1Q is a standard that places a "tag" in a frame identifying which VLAN it belongs to. The advantage of this is that all 802.1Q compliant devices can work seamlessly together to manage VLAN traffic. In addition, MTU VLAN enables each user port and the uplink port in the same VLAN.

Features:

- Fully complies with IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1Q and 802.1p standards
- 17.6Gbps Switching capacity
- Non-blocking architecture
- 8K MAC address table
- True plug & play, auto-Negotiation, auto-MDI/MDI-X detection
- Quick and easy setup with Web-based management
- Supports 52 Port-Based VLANs, 256 IEEE 802.1Q Tag VLANs and MTU VLAN
- Supports Port Bandwidth Control
- Supports Port Trunking, 8 Trunking groups, up to 4 members each group
- Supports Port Mirroring
- Supports the configuration function of Port Security, Broadcast Storm Control
- Supports Static MAC address and filtering MAC address management
- Supports Virtual Cable Test
- Supports Static Port Priority and IEEE 802.1p Class of Service (CoS) with 4-level priority queuing
- Supports firmware upgrade, configuration backed up and restored
- Rack-mountable steel case
- Internal power supply

Gigabit Uplink Web Smart Switch
TL-SL2452WEB

Specifications：

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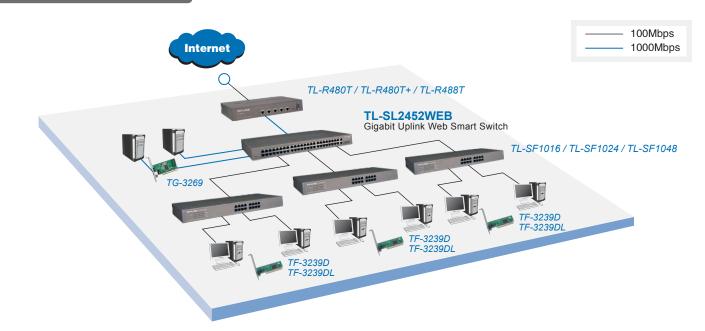| Product specifications	
TL-SL2452WEB	48 10/100Mbps RJ45 ports + 2 10/100/1000Mbps RJ45 ports + 2 independent Gigabit SFP ports
MAC Address Table	8K
Switch Fabric	17.6 Gbps
Transmission Method	Store-and-Forward
Cable Type	UTP CAT 5 or better for 10BASE-T/100BASE-TX
	UTP CAT 5e or better for 1000BASE-T
	1000BASE-SX/1000BASE-LX SFP Module
Network Protocols and Standards	
IEEE	IEEE 802.3
	IEEE 802.3u
	IEEE 802.3z
	IEEE 802.1p Priority
	IEEE 802.1Q VLAN
	IEEE 802.3x Flow Control
Network Management	
In Band & Out of Band	Web-based HTTP & Port Mirroring
Network Security	
VLAN	Supports 52 Port-Based VLANs, 256 IEEE 802.1Q Tag VLANs and MTU VLAN
Port Security	Port locks down to MAC Address, MAC address binding and filtering
Network QoS	
Priority	IEEE 802.1p, 4 queues
Rate Limiting	Ingress/Egress rate control
Link Aggregation	Port Trunking, 8 Trunking groups, up to 4 members each group
Storm Control	Broadcast, Multicast, and Unknown Unicast Control
Electrical & Emissions Summary	
Emissions	CE & FCC
Power Supply	100-240V AC, 50/60 Hz internal universal power
Safety Agency Certifications and Environmental	
Safety	RoHS compliant

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Specifications：

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Physical Specifications

Dimensions (W x D x H)	17.3 × 10.2 × 1.7 in.(440 × 260 × 44 mm) 19-inch rack-mount width
Height	1U
Weight	4.5kg
Temperature	Operating: 0℃ ~ 40℃ (32°F ~ 104°F)
	Storage: -40℃ ~ 70℃ (-40°F ~ 158°F)
Humidity	Operating: 10%~90% Non-condensing
	Storage: 5% to 90% RH, Non-Condensing

Topology Diagram:

Internet

100Mbps
1000Mbps

TL-R480T / TL-R480T+ / TL-R488T

TL-SL2452WEB
Gigabit Uplink Web Smart Switch

TL-SF1016 / TL-SF1024 / TL-SF1048

TG-3269

TF-3239D
TF-3239DL

TF-3239D
TF-3239DL

TF-3239D
TF-3239DL