

# Netgear Prosafe GS516TP 16-Port Gigabit PoE/PoE+ Smart Switch (8 Ports of PoE)

Product Name: Netgear Prosafe GS516TP 16-Port Gigabit PoE/PoE+ Smart Switch (8 Ports of PoE)

Manufacturer: Netgear

Model Number: GS516TP

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The Netgear Prosafe GS516TP 16-Port Gigabit PoE/PoE+ Smart Switch (8 Ports of PoE) offers powerful L2 and L2+ features, better PoE functions, and enhanced performance and usability. They are purposely designed for the converged networks where voice, video, data are all carried on a single network platform for network efficiency, operational cost savings, and ease of management. There are four products in this series, 16/28/52-port Gigabit with PoE and a 28-port Gigabit with PoE Plus. GS516TP is the Smart Switch with PoE/PD features. It can work as PD device that can get power from other PSE device through port 15 or/and port 16. Meanwhile, it can also deliver power to other PDs that are connected to its PoE ports (port 1 to 8).

Netgear Prosafe GS516TP Key Features

- Gigabit Speed with all ports capable of support either PoE or PoE+
- Auto Voice VLAN for fast and reliable deployment of VoIP
- Auto Video VLAN, following the same concept of Auto Voice, help speed up your deployment of IP-based surveillance system
- Static routing, helps to route internal traffic for more efficient use of network resources
- IGMP and MLD snooping, providing advanced multicast filtering

Netgear Prosafe GS516TP - Technical Specifications

Performance Specification

- Forwarding modes Store-and-forward
- 4 Priority queues
- Priority queuing Weighted Round Robin (WRR) MAC Address database size 8,000 media access control (MAC) addresses
- Addressing 48-bit MAC address
- 1K Multicast groups
- 32 Static Routes
- 15 Routed VLANs
- 1024 ARP Cache entries
- 8K DHCP snooping bindings
- 1024 DHCP static entries
- 480 rules shared for MAC, IP and IPv6 ACLs
- Packet size of 9k for Jumbo frame support

Network Security

- IEEE 802.1x
- Guest VLAN
- RADIUS based VLAN assignment via .1x
- MAC-based .1x
- Network Storm Protection
- Broadcast, Unicast, Multicast Protection

L2 Services - VLANs

- IEEE 802.1Q VLAN Tagging
- Video VLAN

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- Voice VLAN - Based on phones OUI bytes (internal database, or usermaintained) or protocols (SIP, H323 and SCCP)

## L2 Services - Availability

- IEEE 802.3ad - LAGs LACP ( (8 LAGS with max. of 8 members in each LAG))
- Broadcast Storm Control
- IEEE 802.3x (Full Duplex and flow control)
- IEEE 802.1D Spanning Tree Protocol
- IEEE 802.1w Rapid Spanning Tree
- IEEE 802.1s Multiple Spanning Tree

## L2 Services - Multicast Filtering

- IGMP Snooping (v1, v2 and v3)
- MLD Snooping Support (v1 and v2)
- IGMP Snooping queriers
- Block unknown Multicast

## L3 Services - DHCP

- DHCP Client
- DHCP Snooping

## L3 Services - IPv4 Routing

- Static Routing
- VLAN Routing

## Network Monitoring and Discovery Services

- 802.1ab LLDP
- SNMP V1, V2, V3
- RMON 1,2,3,9

## Network Traffic

- Access Control Lists (ACLs)L2 / L3 / L4
- IP-based ACLs (IPv4 and IPv6)
- MAC-based ACL
- TCP/UDP-based ACL
- MAC lockdown
- MAC lockdown by the number of MACs
- IEEE 802.1x Radius Port Access Authentication
- Port Security
- DHCP Snooping
- PoE Timer

## Quality of Service (QoS)

- Access Lists
- L2 MAC, L3 IP and L4 Port ACLs
- Ingress rate limiting

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- Egress rate limiting
- Support for IPv6 fields
- DiffServ QoS
- IEEE 802.1p COS
- Dst MAC and IP
- IPv4 and v6 DSCP
- IPv4 and v6 TOS
- WRR (Weighted Round Robin)
- Strict Priority queue technology
- Auto-VoIP Yes, based on protocols (SIP, H323 and SCCP) or on OUI bytes (default database and user-based OUIs) in the phone source MAC address
- Auto Video
- Port Mirroring

## Package Content

- ProSAFE Gigabit PoE/PoE+ Smart Switch
- Power cord
- Rack-mounting kit
- Resource CD with links to online documentation, installation guides, Web-management user manual, Smart Control Center (SCC) software and user guide.

**Price: £324.70**

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