

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: -

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

½ Gigabit Speed with all ports capable of support either PoE or PoE+

½ Auto Voice VLAN for fast and reliable deployment of VoIP

½ Auto Video VLAN, following the same concept of Auto Voice, help speed up your deployment of IP-based surveillance system

½ Static routing, helps to route internal traffic for more efficient use of network resources

½ IGMP and MLD snooping, providing advanced multicast filtering

Netgear Prosafe GS516TP - Technical Specifications

Performance Specification

½ Forwarding modesStore-and-forward

½ 4 Priority queues

½ Priority queuingWeighted Round Robin (WRR) MAC Address database size8,000 media access control (MAC) addresses

½ Addressing 48-bit MAC address

½ 1K Multicast groups

½ 32 Static Routes

½ 15 Routed VLANs

½ 1024 ARP Cache entries

½ 8K DHCP snooping bindings

½ 1024 DHCP static entries

½ 480 rules shared for MAC, IP and IPv6 ACLs

½ Packet size of 9k for Jumbo frame support

Network Security

½ IEEE 802.1x

½ Guest VLAN

½ RADIUS based VLAN assignment via .1x

½ MAC-based .1x

½ Network Storm Protection

½ Broadcast, Unicast, Multicast Protection

L2 Services - VLANs

½ IEEE 802.1Q VLAN Tagging

½ 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.

Please Enquire