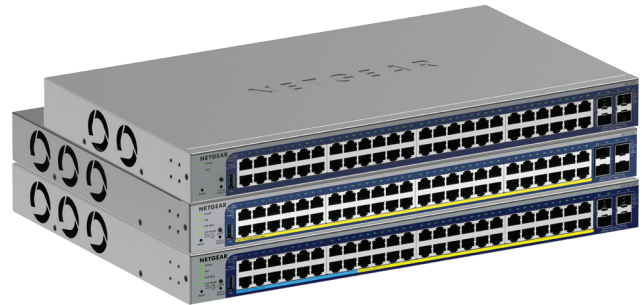


Gigabit Ethernet Switches with 4 SFP+ Ports

Powerful 24-port and 48-port Gigabit switches with 4 dedicated 10G SFP+ uplinks and Remote/Cloud Management option - Select your new network engine!



As a leading provider of network equipment for businesses, NETGEAR® understands the importance of providing a great choice of PoE port counts and power budgets that can adapt to your business' needs, whether in the hospitality, catering, education or retail domains.

The Gigabit Ethernet Switches with 4 SFP+ Ports join the NETGEAR Smart switches with Cloud family, adding full 24 and 48 port PoE+ and PoE++ support for

organizations that deploy high-density PoE devices and require a powerful interconnect link between access and aggregation.

Organizations who buy infrastructure for the long term and want future proofing for the unforeseeable can now select a switch with a PoE power budget of 190W and 420W over 24-port, or 380W and 640W over 48-port providing more headroom.

Temperature- and load-based fan-speed control combines accurate monitoring with minimized system acoustic noise: the 24-port models support quiet rack mounting operation with a maximum of 30.5dBA even at full PoE power with traffic on all ports and 25°C (77°F) ambient. Following the same measurements, the 52-port models are rated at no more than 37.3dBA.

Highlights

The NETGEAR Gigabit Ethernet Switches with 4 SFP+ Ports with Remote/Cloud Management provides a great value, with configurable L2 network features like VLANs and PoE operation scheduling, allowing SMB customers to deploy PoE-based VoIP phones, IP cameras, video-over-IP endpoints and Wireless access points simply and securely. Advanced features such as IPv4/IPv6 Layer 3 static routing, LACP link aggregation, DiffServ QoS, Private VLANs, Multicast VLAN Registration and Spanning Tree will satisfy even the most advanced small business networks.

Key features include:

- Non PoE versions: 24 and 48 Gigabit Ethernet ports on GS728TXv3 and GS752TXv3.
- PoE+ version: Full 24-port and 48-port PoE+ with 190W and 380W total PoE budget on GS728TXPv3 and GS752TXPv3.
- PoE++ version: GS728TXUPv3 supports 8-port PoE++ (up to 60W/port) and 16-port PoE+ with a total of 420W PoE budget; GS752TXUPv3 supports 16-port PoE++ (up to 60W/port) and 32-port PoE+ with 640W total PoE budget.
- 4 Dedicated 10G SFP+ ports, not only providing high-speed fiber uplinks, but also uplink redundancy and failover, improving reliability and availability for the network
- Quiet rack mounting operation with 26.80dBA to 37.3dBA at 25°C (77°F) ambient
- Layer 3 static routing with 32 routes (IPv4 and IPv6) for interVLAN local routing

Gigabit Ethernet Switches with 4 SFP+ Ports

- PoE Self-healing supported on GS728TXUPv3 and GS752TXUPv3 that allows for PoE auto-recovery of the connected power devices when they become unresponsive or stop working properly
 - Advanced VLAN and Private VLAN support for better network segmentation
 - L2/L3/L4 access control lists (ACLs) for granular network access control including 802.1x port authentication
 - Advanced per port PoE controls for remote power management of PoE connected devices including operation scheduling (e.g. Wireless APs, IP security cameras, LED lighting, secure access door locks, IoT devices...)
 - Advanced QoS (Quality of Service) for traffic prioritization including port-based, 802.1p and L2/L3/L4 DSCP-based
 - Auto "denial-of-service" (DoS) prevention
 - IGMP Snooping and Querier for multicast optimization
 - Multicast VLAN Registration (MVR) for larger L2 multicast networks and AV over IP deployment
 - Dynamic ARP for increased security targeting a class of Man in the Middle attack
 - Rate limiting and priority queuing for better bandwidth allocation
 - Port mirroring for network monitoring
 - Energy Efficient Ethernet (IEEE 802.3az) for maximum power savings
 - Cable test to troubleshoot connection issues
 - SNMP v1, v2c, v3 and RMON remote monitoring
- Build a future-proof network with NETGEAR:**
- Solid performance with non-blocking architecture, 16K MAC addresses, 256 VLANs, 100 shared (ingress) ACLs and 512 Multicast groups
 - Comprehensive IPv6 supporting management, QoS, ACL and routing, ensuring investment protection and a smooth migration to IPv6-based network
- Fully-integrated cloud-manageable devices**
- Remote/Cloud Management capability with NETGEAR Insight. Instantly activate NETGEAR Insight Cloud management from the web GUI, for simpler configuration and deployment from anywhere using the NETGEAR Insight app on mobile devices or the Insight Cloud portal through a web browser

Smart IT, not Big IT

- Easy-to-use Web browser-based management GUI
- Dual firmware images improve reliability and uptime to your network
- Text-based Lite Command-line Interface (CLI)

NETGEAR quality and reliability

- Worry-free NETGEAR Limited Lifetime Warranty*, online technical chat support and Next Business Day (NBD) replacement
- 90-days Free 24x7 Advanced Technical Phone Support**



Gigabit Ethernet Switches with 4 SFP+ Ports

Hardware at a Glance

	FRONT				REAR	SIDE
Model Name	Form-Factor	10/100/ 1000BASE-T RJ45 Ports	1000/10GBASE-X Fiber SFP+ ports	PoE+ 802.3at and PoE++ 802.3bt Type 3 Ports (Budget)	Power Supply	Fans
GS728TXv3	Rack mount, Desktop	24	4	Non-PoE	1 internal PSU, fixed	1 internal fan, fixed
GS728TXPv3	Rack mount, Desktop	24	4	24 PoE+ (190W)	1 internal PSU, fixed	2 internal fans, fixed
GS728TXUPv3	Rack mount, Desktop	24	4	16 PoE+, 8 PoE++ (420W)	1 internal PSU, fixed	2 internal fans, fixed
GS752TXv3	Rack mount, Desktop	48	4	Non-PoE	1 internal PSU, fixed	2 internal fans, fixed
GS752TXPv3	Rack mount, Desktop	48	4	48 PoE+ (380W)	1 internal PSU, fixed	2 internal fans, fixed
GS752TXUPv3	Rack mount, Desktop	48	4	32 PoE+, 16 PoE++ (640W)	1 internal PSU, fixed	2 internal fans, fixed

Software at a Glance

LAYER 2+ / LAYER 3 LITE FEATURES							
Management	IPv4/IPv6 ACL and QoS	IPv4/IPv6 Multicast Filtering	Auto-VoIP Auto-Video	IEEE (802.3az) Energy Efficient Ethernet	VLANs	Convergence	IPv4 & IPv6 Static Routing
Web browser-based GUI (HTTP/HTTPS), NETGEAR Insight mobile app or Insight Cloud Portal for local or remote management Text-based Lite Command-line Interface (CLI) RMON, SNMP	L2, L3, L4, ingress	IGMP and MLD Snooping	Yes	Yes	Static, Dynamic, Voice, MAC, Protocol-based, and Private VLAN GARP, GVRP, MVR, Auto-Camera and Auto-WiFi	LLDP-MED, RADIUS, 802.1X	Yes

Performance at a Glance

Model Name	Packet buffer	CPU	ACLs	MAC Address Table ARP Table VLANs	Fabric	Latency (Max Connection Speed)	Static Routes (IPv4 & IPv6)	Multicast IGMP Group		
GS728TXv3	1.5MB	800MHz ARM A55 Single Core	100 shared	16K MAC 512 ARP 256 VLANs	128 line-rate	1G Copper:<5.575μs 1G Fiber: <5.149μs 10G Fiber <2.124us	IPv4: 32 IPv6: 32	512		
GS728TXPv3					128 line-rate					
GS728TXUPv3					128 line-rate					
GS752TXv3		512MB DDR RAM 64MB FLASH			176 line-rate					
GS752TXPv3					176 line-rate					
GS752TXUPv3					176 line-rate					

Gigabit Ethernet Switches with 4 SFP+ Ports

Features and Benefits

Hardware Features	
1000BASE-T Copper Ethernet PoE+ connections	Support high-density VoIP, Surveillance and Wi-Fi AP deployments, scalable for future growth. Never face the risk of running out of PoE ports.
1000/10GBASE-X Fiber SFP+ ports	Four dedicated 10G SFP+ ports for aggregation to the network core. Support for Fiber and Copper modules. Can also build dual redundancy by a trunked uplink with link aggregation and failover.
Great choice of PoE port counts and PoE power budgets that can adapt to the business's needs	Up to 640W budget available across 24 or 48 Gigabit PoE+ (802.3at) and PoE++ (802.3bt) ports - Connect multiple power demanding devices to your network with a single wire for power and connectivity.
Low Acoustics	Temperature-based fan-speed control minimizes system acoustic noise in any environment starting at 26.80dBA at 25°C (77°F) ambient.
Energy Efficient Ethernet (IEEE 802.3az)	Maximum power reduction for ongoing operational cost savings.
Software Features	
Fully-integrated Cloud-manageable Devices	Require no additional hardware (cloud keys, network portals, local servers, VPN or proxy appliances etc) to directly connect to the cloud and allow remote management. No additional hardware or software. Just switch to Insight Cloud management mode through Web browser-based user interface and go.
Text-based Lite Command-line Interface (CLI)	Provide a text-based way to manage and monitor the system. The CLI can be accessed by using a direct serial connection, or by using a remote logical connection with telnet or SSH.
Comprehensive IPv6 Support for Management, ACL and QoS	Build current network with future in mind. Ensure investment protection and a smooth migration to an IPv6-based network without switch replacement.
IPv4 & IPv6 Static Routing	A simple way to provide segmentation of the network with internal routing through the switch - reserving the router for external traffic routing only, making the entire network more efficient.
Robust security features: • 802.1x authentication (EAP) • Port-based security by locked MAC • ACL filtering to permit or deny traffic based on MAC and IP addresses	Build a secured, converged network with all types of traffic by preventing external attacks and blocking malware while allowing secure access for authorized users.
Comprehensive QoS features: • Port-based or 802.1p-based prioritization • Layer 3-based (DSCP) prioritization • Port-based ingress and egress rate limiting	Advanced controls for optimized network performance and better delivery of mission-critical traffic such as voice and video.
Auto-VoIP, Auto-Voice VLAN, and Auto-Video VLAN	Automatic Voice over IP prioritization (Auto-VoIP) simplifies most complex multi-vendor IP telephone deployments either based on protocols (SIP) or on OUI bytes (default database and user-based OUIs) in the phone source MAC address, providing the best class of service to VoIP streams (both data and signaling) over other ordinary traffic by classifying traffic, and enabling correct egress queue configuration. Similarly, Auto-video VLAN enables IGMP snooping to minimize broadcast streams.

Gigabit Ethernet Switches with 4 SFP+ Ports

Software Features (continued)	
Auto-WiFi, Auto-Camera VLAN	Auto-WiFi VLAN and Auto-Camera VLAN allows the switch to forward packets with the inputted OULs of Wireless APs and cameras in a special VLAN with priority settings of that VLAN automatically.
IGMP (IPv4) and MLD (IPv6) Snooping and Querier modes with Fast Leave	Facilitate fast receiver joins and leaves for multicast streams. Save cost and improve network efficiency by ensuring multicast traffic only reaches designated receivers without the need of an extra multicast router.
Protected Ports	Ensure no exchange of unicast, broadcast, or multicast traffic between the protected ports on the switch, thereby improving the security of your converged network. This allows your sensitive phone conversations to stay private and your surveillance video clips can be forwarded to their designated storage device without leakage or alteration.
DHCP Snooping and Dynamic ARP Inspection	Ensure IP address allocation integrity by only allowing DHCP messages from trusted DHCP servers and dropping malformed DHCP messages with a port or MAC address mismatch. Use the DHCP snooping bindings database per port and per VLAN to drop incoming packets that do not match any binding and to enforce source IP/MAC addresses for malicious users traffic elimination.
PoE Timer and Scheduling	Allows IT administrators to increase network security, better utilize network resources and conserve energy by scheduling or remotely controlling on/off of PoE ports
PoE Self-healing (GS728TXUPv3 and GS752TXUPv3 only)	Allows for PoE auto-recovery of the connected power devices when they become unresponsive or stop working properly.
Loop Prevention and Auto-DoS Prevention	Detect and prevent (auto port shutdown) accidental network loops and protect against DoS attacks.
Dynamic VLAN Assignment (RADIUS)	IP phones and PCs can authenticate on the same port but under different VLAN assignment policies. Users are free to move around and enjoy the same level of network access regardless of their physical location on the network.
Link Aggregation (LACP)	Build up bigger bandwidth to support aggregated uplink/downlink traffic or to provide redundant link(s). Aggregate up to 8 ports for 8Gbps connections.
Dual Firmware Images	Dual firmware images for transparent firmware updates with minimum service interruption.
Port Mirroring and Cable Test	Many-to-one port mirroring for better and quicker network diagnostics and troubleshooting. Cable test easily identifies bad Ethernet cables.
Firmware Updates from Cloud	Direct cloud-to-device firmware updates, initiated and/or scheduled using the Insight app, all from the palm of your hand, anytime, anywhere.

NETGEAR®
INSIGHT

Simply activate NETGEAR Insight Cloud management to manage your network. Anytime. Anywhere.

Activating NETGEAR Insight Cloud management enables users to experience simpler configuration and deployment from anywhere using the NETGEAR Insight app from mobile devices or the Insight Cloud portal from any device with a web browser.

Unique advanced management features of these Insight managed devices include:

- Remote monitoring and management with performance dashboards and troubleshooting features including remote reboot, port and PoE advanced configuration including remote enable/disable/power-cycle, PoE scheduling, and firmware updates with auto-schedule mode
- Single pane-of-glass multi-device, multi-network, and multi-site remote monitoring and notifications with the NETGEAR Insight app
- Full-fledged local or remote access for configuration, management, and monitoring on a larger display using your tablet, laptop, or desktop computer through the NETGEAR Insight Cloud portal
- Configurable in-app and email alerts and notifications
- Auto-join and configure (zero-touch provisioning) for additional Insight managed devices added to the network
- Centralized network configuration (policies) across Insight managed switches, and access points for VLANs, ACLs, QoS, LAGs, etc.
- Cloud-based network administration, monitoring, and firmware management

For more information about NETGEAR Insight-manageable device settings, please see at:
<https://www.netgear.com/support/product/Insight.aspx>

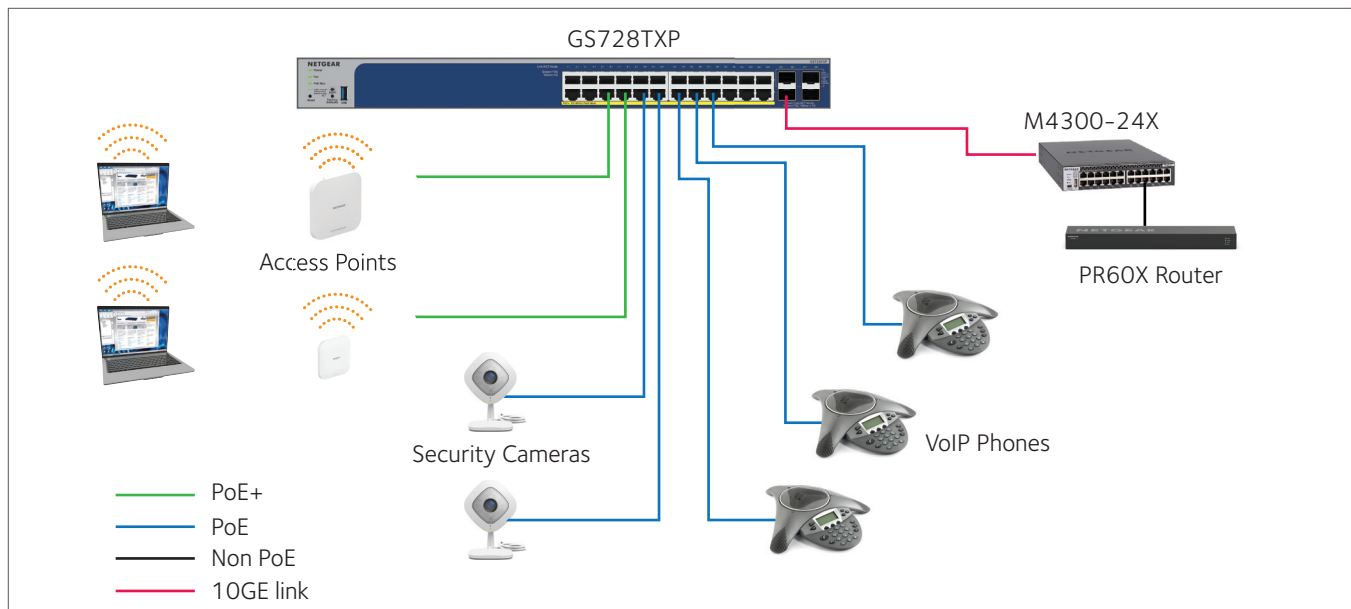


As a part of NETGEAR's Total Network Solution, this product is compatible with a wide range of routers, access points and switches that can be remotely managed through the Insight Remote Cloud Management platform.

Find out more: www.netgear.com/total

Target Application

Network Convergence



Within small and medium-sized organizations – especially in the hospitality, catering, education, and retail industries – there is growing deployment of VoIP phones, IP security cameras, video-over-IP endpoints, proximity sensors, LED lighting, secure access door locks, and other IoT devices. The dense proximity of these devices requires network switches capable of supporting PoE so a network manager can add power-hungry devices to the network with a single wire for power and connectivity. Wave 2 802.11ac wireless access points and pan-tilt-zoom HD surveillance cameras with features such as night vision and built-in motion tracking also require PoE+ (802.3at) and PoE++ (802.3bt), increasing the power demands on PoE switches.

The new 24-port and 48-port NETGEAR Smart switches support dense deployments of these modern high-power PoE devices. They offer powerful Layer 2 and Lite Layer 3 (static routing) features for IPv4 and IPv6 with enhanced performance and a focus on usability within SMB environments:

- 190W (GS728TXPv3) PoE budget across 24 Gigabit PoE+ ports
- 380W (GS752TXPv3) PoE budget across 48 Gigabit PoE+ ports
- 420W (GS728TXUPv3) PoE budget across 8 Gigabit PoE++ ports and 16 Gigabit PoE+ ports
- 640W (GS752TXUPv3) PoE budget across 16 Gigabit PoE++ ports and 32 Gigabit PoE+ ports
- 4 dedicated Gigabit SFP+ fiber ports for aggregation to the network core
- Quiet rack mounting operation with 26.80dBA to 36.6dBA max at 25°C (77°F) ambient
- Layer 3 static routing with 32 routes (IPv4 and IPv6) for interVLAN local routing
- IGMP Snooping, IGMP Querier and IGMP Fast Leave for multicast optimization
- Include VLANs, Private VLAN, PoE scheduling, ACLs, DiffServ, LACP, MVR and STP
- Easy-to-use Web browser-based management GUI – No need for an IT expert
- Limited Lifetime* Warranty, Next Business Day replacement, Tech support

Technical Specifications	GS728TXv3	GS728TXPv3	GS728TXUPv3	GS752TXv3	GS752TXPv3	GS752TXUPv3
10M/100M/1G RJ-45 copper ports	24	24	24	48	48	48
PoE / PoE+ ports	Non-PoE	24 PoE+ (190W PoE budget)	24 PoE+ 8 PoE++ (420W PoE budget)	Non-PoE	48 PoE+ (380W PoE budget)	48 PoE+ 16 PoE++ (640W PoE budget)
10G SFP+ (fiber) ports	4 (dedicated)	4 (dedicated)	4 (dedicated)	4 (dedicated)	4 (dedicated)	4 (dedicated)
USB port (for config file upload/backup & firmware updates)	Yes	Yes	Yes	Yes	Yes	Yes
Unified Network Management (Discovery, Setup, Monitoring, And Management)						
Discovery, setup, monitoring and management	NETGEAR Insight mobile app on phone or tablet; Insight Cloud portal from PC, Mac, or tablet web browser					
Remote/Cloud management	Anywhere, anytime, from the palm of your hand using Insight mobile app or from any PC, Mac, or tablet web browser using the Insight Cloud portal					
Centralized network configuration (policies)	Centralized network configuration (policies) across Insight Managed switches, and wireless access points for VLANs, ACLs, QoS, and LAGs					
Device auto-join and configure (zero-touch provisioning)	Additional Insight Managed devices added to the network automatically inherit the network configuration					
Multi-site, multi-network single pane-of-glass view	Manage multiple sites, locations, and networks in a single view using the Insight mobile app or Insight Cloud Portal					
Multi-switch, multi-port concurrent configuration for ACLs, VLANs, QoS, PoE, etc	Apply settings and policies on multiple ports across multiple switches all at the same time using the Port Config Wizard					
Performance Specification						
CPU	800MHz ARM A55 Single Core					
Packet buffer memory (Dynamically shared across only used ports)	1.5 MB					
Forwarding modes	Store-and-forward					
Bandwidth	128 Gbps	128 Gbps	128 Gbps	176 Gbps	176 Gbps	176 Gbps
Priority queues	8					
Priority queuing	Weighted Round Robin (WRR)					
MAC address database size (48-bit MAC addresses)	16K					
Multicast groups	512					
Number of IPv4 static routes	32					
Number of IPv6 static routes	32					
Number of VLANs	256					
Number of ARP cache entries	512 ARP					
Number of DHCP snooping bindings	256					
Access Control Lists (ACLs)	100 shared for MAC, IP and IPv6 ACLs (ingress)					
Packet forwarding rate (64 byte packet size) (Mpps)	83.52	95.24	83.52	130.94	130.94	130.94
Jumbo frame support (bytes)	Up to 10K packet size					
Acoustic noise level @ 25°C (dBA) (ANSI-S10.12)	29dBA	26.8dBA	30.5dBA	32.5dBA	36.6dBA	37.3dBA

Gigabit Ethernet Switches with 4 SFP+ Ports

Performance Specification	GS728TXv3	GS728TXPv3	GS728TXUPv3	GS752TXv3	GS752TXPv3	GS752TXUPv3
Mean Time Between Failures (MTBF)@ 25°C	382,249 hours	1,252,990 hours	286,168 hours	346,910 hours	1,296,949 hours	191,643 hours
100M Copper Latency (64-byte; 1518-byte; 9216-byte frames)	15.075µs; 131.795µs; 747.635µs	8.379µs; 8.658µs; 8.871µs	15.075µs; 131.795µs; 747.635µs	15.155µs; 131.875µs; 747.635µs	9.891µs; 9.444µs; 9.617µs	15.155µs; 131.875µs; 747.635µs
1G Copper Latency (64-byte; 1518-byte; 9216-byte frames)	5.575µs; 17.605µs; 79.317µs	4.008µs; 4.398µs; 4.701µs	5.575µs; 17.605µs; 79.317µs	5.572µs; 17.620µs; 79.317µs	3.910µs; 4.319µs; 4.411µs	5.572µs; 17.620µs; 79.317µs
1G Fiber Latency (64-byte; 1518-byte; 9216-byte frames)	3.767µs; 15.815µs; 77.525µs	5.149µs; 6.462µs; 11.181µs	3.767µs; 15.815µs; 77.525µs	3.755µs; 15.805µs; 77.515µs	5.149µs; 6.462µs; 11.181µs	3.755µs; 15.805µs; 77.515µs
10G Fiber Latency (64-byte; 1518-byte; 9216-byte frames):	1.912µs; 3.120µs; 9.277µs	2.124µs; 2.157µs; 2.175µs	1.912µs; 3.120µs; 9.277µs	1.900µs; 3.105µs; 9.280µs	1.900µs; 3.105µs; 9.280µs	1.900µs; 3.105µs; 9.280µs
L2 Services - VLANs						
IEEE 802.1Q VLAN tagging				Yes		
IP-based VLANs				Yes		
MAC-based VLANs				Yes		
Auto-VoIP VLAN / Auto-Voice VLAN	Yes, based on OUI bytes (default database and user-based OUIs) in the phone source MAC address					
Auto-VoIP	Yes, based on protocols (SIP). Prioritizes traffic to a higher queue					
Voice VLAN	Yes, based on either VLAN ID or 802.1p priority, packets are passed onto the connecting VoIP phone using LLDP-MED					
Auto-Video VLAN				Yes		
Auto WiFi VLAN and Auto Camera VLAN				Yes, based on inputed OUIs		
GARP with GVRP				Yes		
Private VLAN				Yes		
L2 Services - Availability						
Broadcast, multicast, unknown unicast storm control				Yes		
IEEE 802.3ad - LAGs (LACP)				Yes		
IEEE 802.3x (full duplex and flow control)				Yes		
IEEE 802.1D Spanning Tree Protocol				Yes		
IEEE 802.1w Rapid Spanning Tree Protocol				Yes		
IEEE 802.1s Multiple Spanning Tree Protocol				Yes		
Layer 2 DHCP Relay				Yes		
L2 Services - Multicast Filtering						
IGMP snooping (v1, v2 and v3)				Yes		
MLD snooping support (v1 and v2)				Yes		
IGMP snooping querier (v2)				Yes		
MLD snooping querier (v1)				Yes		
Multicast VLAN Registration (MVR)				Yes		
L3 Services - DHCP						
DHCP client				Yes		
DHCP snooping				Yes		
DHCP Server, DHCP IPv6 Server, DHCP Relay, DHCP IPv6 Relay				Yes		

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L3 Services - Routing	GS728TXv3	GS728TXPv3	GS728TXUPv3	GS752TXv3	GS752TXPv3	GS752TXUPv3
IPv4 static routing			32			
IPv6 static routing			32			
VLAN routing			Yes			
Host ARP table (number of entries)			512 ARP			
ICMP Router Discovery Protocol (IRDP)			Yes			
Number of IP VLAN interfaces (routed VLANs)			15			
Link Aggregation						
IEEE 802.3ad - LAGs (LACP)			Yes			
Manual LAG			Yes			
# of LAGs / # of members in each LAG			16 LAGs with max 8 members in each LAG			
Network Monitoring and Discovery Services						
802.1ab LLDP			Yes			
SNMP			v1, v2, v3			
RMON group 1,2,3,9			Yes			
Network Security						
IEEE 802.1x			Yes			
Guest VLAN			Yes			
RADIUS-based VLAN assignment via .1x			Yes			
MAC-based .1x			Yes			
RADIUS accounting			Yes			
Access Control Lists (ACLs)			L2 / L3 / L4			
IP-based ACLs (IPv4 and IPv6)			Yes			
MAC-based ACLs			Yes			
TCP/UDP-based ACLs			Yes			
MAC lockdown			Yes			
MAC lockdown by the number of MACs			Yes			
Control MAC # Dynamic learned entries			16384			
Control MAC # static entries			256			
IEEE 802.1x RADIUS port access authentication			Yes			
Port-based security by locked MAC addresses			Yes			
Dynamic ARP inspection			Yes			
Broadcast, unicast, multicast DoS protection			Yes			
DoS attacks prevention			Yes			
Network storm protection, DoS			Yes			
Broadcast, unicast, multicast DoS protection			Yes			
DoS attacks prevention			Yes			

Quality of Service (QoS)	GS728TXv3	GS728TXPv3	GS728TXUPv3	GS752TXv3	GS752TXPv3	GS752TXUPv3
Port-based rate limiting	Yes ingress and egress					
Port-based QoS	Yes					
Support for IPv6 fields	Yes					
DiffServ QoS	Yes ingress					
IEEE 802.1p COS	Yes					
Destination MAC and IP	Yes					
IPv4 and v6 DSCP	Yes					
IPv4 and IPv6 ToS	Yes					
TCP/UDP-based	Yes					
Weighted Round Robin (WRR)	Yes					
Strict priority queue technology	Yes					
Auto-VoIP VLAN / Auto-Voice VLAN	Yes, based on OUI bytes (default database and user-based OUIs) in the phone source MAC address					
Auto-VoIP	Yes, based on protocols (SIP). Prioritizes traffic to a higher queue					
Voice VLAN	Yes, based on either VLAN ID or 802.1p priority, packets are passed onto the connecting VoIP phone using LLDP-MED					
Auto-Video VLAN	Yes					
IEEE Network Protocols						
<ul style="list-style-type: none">• IEEE 802.3 Ethernet• IEEE 802.3u 100BASE-T• IEEE 802.3ab 1000BASE-T• IEEE 802.3af PoE• IEEE 802.3at PoE+• IEEE 802.3az Energy Efficient Ethernet (EEE)• IEEE 802.3ad Trunking (LACP)• IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX	<ul style="list-style-type: none">• IEEE 802.3x Full-Duplex Flow Control• IEEE 802.1Q VLAN Tagging• IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)• IEEE 802.1p Class of Service• IEEE 802.1D Spanning Tree (STP)• IEEE 802.1s Multiple Spanning Tree (MSTP)• IEEE 802.1w Rapid Spanning Tree (RSTP)• IEEE 802.1x RADIUS Network Access Control					
Management, Monitoring & Troubleshooting						
Cloud/Remote management	Yes					
Insight mobile app & Insight Cloud Portal management	Yes					
uPnP Discovery	Yes					
Lite Command-line Interface (CLI)	Yes (Refer to Lite CLI Manual on NETGEAR Support page of the switch model)					
Networking monitoring	Yes					
Data/performance logs	Yes					
Centralized network configuration/policies (network-centric management)	Yes					
Device auto-join and configure (zero-touch provisioning)	Yes					
Multi-site, multi-network single pane-of-glass view	Yes					
Multi-switch, multi-port concurrent configuration	Yes					
Network/global password (for all Insight Managed devices on a network)	Yes (per network/subnet via NETGEAR Insight mobile app and Insight Cloud portal)					

Management, Monitoring & Troubleshooting	GS728TXv3	GS728TXPv3	GS728TXUPv3	GS752TXv3	GS752TXPv3	GS752TXUPv3
Password management				Yes		
Configurable management VLAN				Yes		
Admin access control via RADIUS and TACACS+				Yes		
IPv6 management				Yes		
SNTP client over UDP port 123				Yes		
SNMP v1/v2c				Yes		
SNMP v3 with multiple IP addresses				Yes		
RMON group 1,2,3,9				Yes		
Port mirroring				Yes ingress and egress		
Many-to-one port mirroring	28	28	28	52	52	52
Web browser-based graphical user interface (GUI)				Yes		
Dual software (firmware) image				Yes		
Cable test utility				Yes		
TLS/HTTPS Web-based access (version)				Yes (v1.2 and v1.3)		
File transfers (uploads, downloads)				TFTP / HTTP		
HTTP upload/download (firmware)				Yes		
Syslog (RFC 3164)				Yes		
USB port for firmware and config upload/download				Yes		
LEDs						
Per port				Speed, Link, Activity; or PoE in different mode		
Per device				Power, Fan, PoE Max		
Physical Specifications						
Dimensions	440x257x43mm (17.3x10.1x1.7 in)	440x257x43 mm (17.3x10.1x1.7 in)	440x257x43 mm (17.3x10.1x1.7 in)	440x257x43 mm (17.3x10.1x1.7 in)	440x316x43.2mm (17.3x12.4x1.7 in)	440x316x43.2mm (17.3x12.4x1.7 in)
Weight	3.08kg (6.79 lb)	3.78kg (8.32lb)	3.86kg (8.51lb)	3.53kg (7.78 lb)	5.03 kg (11.08 lb)	4.79kg (10.56 lb)
Power Consumption (when all ports used, line-rate traffic and max PoE)						
Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts)		231W	502W		436W	763W
Max power without PoE (worst case, all ports used, line-rate traffic) (Watts)	26W	29W	27W	43W	51W	47W
Iddle power consumption (all ports link-down standby) (Watts)	8W	20W	14W	16W	28W	24W
Heat Dissipation (worst case, all ports used, full PoE, line-rate traffic) (BTU/hr)	87.43 BTU/hr	772.9 BTU/hr	1711.38 BTU/hr	146.19 BTU/hr	1474.02 BTU/hr	2600.13 BTU/hr
Energy Efficient Ethernet (EEE) IEEE 802.3az				Yes (deactivated by default)		
Fan	1	2	2	2	2	2

Gigabit Ethernet Switches with 4 SFP+ Ports

Environmental Specifications	GS728TXv3	GS728TXPv3	GS728TXUPv3	GS752TXv3	GS752TXPv3	GS752TXUPv3
Operating						
Operating Temperature	0° to 50°C (32° to 122°F)					
Humidity	90% maximum relative humidity (RH), non-condensing					
Altitude	10,000 ft (3,000 m) maximum					
Storage						
Storage Temperature	-20° to 70°C (- 4° to 158°F)					
Humidity (relative)	95% maximum relative humidity, non-condensing					
Altitude	10,000 ft (3,000 m) maximum					
Electromagnetic Emissions and Immunity						
Certifications	CE, FCC Class A, RCM, ICES Class A, VCCI, KC, BSMI, UKCA					
Safety						
Certifications	CB, CE, CSA, RCM, KC, BSMI					
Warranty and Support						
Hardware Limited Warranty	Limited Lifetime*					
Technical Support via Phone and Email*	90 days					
Limited Lifetime* 24x7 Online Chat Technical Support	Limited Lifetime*					
Limited Lifetime* Next-Business-Day (NBD) Replacement	Limited Lifetime*					
ProSUPPORT OnCall 24x7 Service Packs**	Category 1:	Category 1:	Category 2:	Category 1:	Category 1:	Category 2:
OnCall 24x7 extends the 90-day phone and email warranty entitled technical sup- port for standard and advanced features to the length of the contract term.	PMB0311 (1 yr) PMB0331 (3 yrs) PMB0351 (5 yrs)	PMB0311 (1 yr) PMB0331 (3 yrs) PMB0351 (5 yrs)	PMB0312 (1 yr) PMB0332 (3 yrs) PMB0352 (5 yrs)	PMB0311 (1 yr) PMB0331 (3 yrs) PMB0351 (5 yrs)	PMB0311 (1 yr) PMB0331 (3 yrs) PMB0351 (5 yrs)	PMB0312 (1 yr) PMB0332 (3 yrs) PMB0352 (5 yrs)
Package Contents						
All models	Smart Switch					
	AC Power cord with C13 connector (localized to region of sale)					
	Brackets and screws for rack mounting					
	Rubber footpads for tabletop installation					
	Rubber protection caps, which are already installed in the SFP sockets					
	Installation guide					

Ordering Information

GS728TX

GS728TX-300AUS	Australia
GS728TX-300EUS	Europe, including United Kingdom
GS728TX-300INS	India
GS728TX-300JPS	Japan
GS728TX-300KOS	South Korea
GS728TX-300NAS	North America, Latin America
GS728TX-300PES	Middle East
GS728TX-300PRS	China
GS728TX-300TWS	Taiwan
GS728TX-300UKS	Hong Kong

GS728TXP

GS728TXP-300AUS	Australia
GS728TXP-300EUS	Europe, including United Kingdom
GS728TXP-300INS	India
GS728TXP-300JPS	Japan
GS728TXP-300KOS	South Korea
GS728TXP-300NAS	North America, Latin America
GS728TXP-300PES	Middle East
GS728TXP-300PRS	China
GS728TXP-300TWS	Taiwan
GS728TXP-300UKS	Hong Kong

GS728TXUP

GS728TXUP-300AUS	Australia
GS728TXUP-300EUS	Europe, including United Kingdom
GS728TXUP-300INS	India
GS728TXUP-300JPS	Japan
GS728TXUP-300KOS	South Korea
GS728TXUP-300NAS	North America, Latin America
GS728TXUP-300PES	Middle East
GS728TXUP-300PRS	China
GS728TXUP-300TWS	Taiwan
GS728TXUP-300UKS	Hong Kong

Gigabit Ethernet Switches with 4 SFP+ Ports

GS752TX

GS752TX-300AUS	Australia
GS752TX-300EUS	Europe, including United Kingdom
GS752TX-300INS	India
GS752TX-300JPS	Japan
GS752TX-300KOS	South Korea
GS752TX-300NAS	North America, Latin America
GS752TX-300PES	Middle East
GS752TX-300PRS	China
GS752TX-300TWS	Taiwan
GS752TX-300UKS	Hong Kong

GS752TXP

GS752TXP-300AUS	Australia
GS752TXP-300EUS	Europe, including United Kingdom
GS752TXP-300INS	India
GS752TXP-300JPS	Japan
GS752TXP-300KOS	South Korea
GS752TXP-300NAS	North America, Latin America
GS752TXP-300PES	Middle East
GS752TXP-300PRS	China
GS752TXP-300TWS	Taiwan
GS752TXP-300UKS	Hong Kong

GS752TXUP

GS752TXUP-300AUS	Australia
GS752TXUP-300EUS	Europe, including United Kingdom
GS752TXUP-300INS	India
GS752TXUP-300JPS	Japan
GS752TXUP-300KOS	South Korea
GS752TXUP-300NAS	North America, Latin America
GS752TXUP-300PES	Middle East
GS752TXUP-300PRS	China
GS752TXUP-300TWS	Taiwan
GS752TXUP-300UKS	Hong Kong

Gigabit Ethernet Switches with 4 SFP+ Ports

Optional Modules, Software Licenses and Accessories

AGM731F	SFP Transceiver 1000BASE-SX (Short range, multimode)
AGM732F	SFP Transceiver 1000BASE-LX (Long range, single mode)
AGM734-10000S	SFP Transceiver 1000BASE-T Copper RJ45 GBIC
AXM761	SFP+ Transceiver 10GBASE-SR (Short range, multimode)
AXM762	SFP+ Transceiver 10GBASE-LR (Long range, single mode)
AXM763	SFP+ Transceiver 10GBASE-LRM (Long range, multimode)
AXM764	SFP+ Transceiver 10GBASE-LR Lite (Long range lite, single mode)
AXM765v2	10GBASE-T SFP+ RJ45 Transceiver (80m)
AXC761	SFP+ DAC CABLE (1m)
AXC763	SFP+ DAC CABLE (3m)

*This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller, and covers unmodified hardware, fans and internal power supplies – not software or external power supplies, and requires product registration at <https://www.netgear.com/business/registration> within 90 days of purchase; see <https://www.netgear.com/about/warranty> for details. Intended for indoor use only.

** The NETGEAR OnCall 24x7 contract provides unlimited phone and email technical support for your networking product. For ProSAFE products purchased prior to 06/2014, also includes next-business-day hardware replacement.

† NETGEAR #1 in US Market Share according to NPD data for Unmanaged and Smart Switches, September 2019. NETGEAR #1 in Europe Market Share according to Context data for Unmanaged and Smart Switches, September 2019.

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