NETGEAR®
BUSINESS

Data Sheet | **GS728TPv2, GS728TPPv2, GS752TPv2, GS752TPP**

Gigabit PoE+ Smart Switches with Remote/Cloud Management

All ports PoE+ with up to 760W PoE budget and Remote/Cloud Management option - Select your new network engine!

As a leading provider of network equipment for SMBs, 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 GS728TP, GS728TPP, GS752TP, and GS752TPP Gigabit Ethernet switches with PoE+ and 4 SFP ports join the NETGEAR standalone Smart switches family, adding full 24 and 48 port PoE+ support for deployment of modern high-power PoE devices. Cautious spender organizations can now deploy denser PoE+ devices connected to a cost-effective switch, with a reasonable PoE power budget of 190W over 24-port, or 380W over 48-port. 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 380W over 24-port, or 760W over 48-port providing more headroom.

Temperature- and load-based fan-speed control combines accurate monitoring with minimized system acoustic noise: the GS728TP supports quiet rack mounting operation with a maximum of 27.08dB even at full PoE power with traffic on all ports and 25°C (77°F) ambient. Following the same measurements, the GS728TPP is rated at 33.42dB, the GS752TP at 36.94dB and the GS752TPP at 39.74dB.

Highlights

The NETGEAR PoE+ Gigabit Smart switches 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:

- Quiet rack mounting operation with 27.08dB to 39.74dB at 25°C (77°F) ambient
- Layer 3 static routing with 32 routes (IPv4 and IPv6) for interVLAN local routing
- 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 DoS (Denial of Service) 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
- PoE+ support on all models and on all ports
- 4 Dedicated SFPs, not only providing fiber uplinks, but also uplink redundancy and failover, improving reliability and availability for the 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
- Network Management System (NMS300), allowing all NETGEAR business products to be deployed and managed through this single interface
- Dual firmware images improve reliability and uptime to your network

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**

Hardware-at-a-Glance

	FRONT				REAR	SIDE
Model Name	Form-Factor	10/100/1000 Base-T RJ45 ports	1000BASE-X Fiber SFP Ports	PoE+ 802.3at Ports (Budget)	Power Supply	Fans
GS728TP	Rack mount	24	4	24 PoE+ (190W)	1 internal PSU, fixed	2 internal fans, fixed
GS728TPP	Rack mount	24	4	24 PoE+ (380W)	1 internal PSU, fixed	2 internal fans, fixed
GS752TP	Rack mount	48	4	48 PoE+ (380W)	1 internal PSU, fixed	2 internal fans, fixed
GS752TPP	Rack mount	48	4	48 PoE+ (760W)	1 internal PSU, fixed	3 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 RMON, SNMP	L2, L3, L4, ingress	IGMP and MLD Snooping	Yes	Yes	Static, Dynamic, Voice, MAC, Protocol-based, and Private VLAN	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
GS728TP	1.5MB	MIPS-34Kc 700MHz Single Core 128MB DDR RAM 32MB FLASH	100 shared	16K MAC 512 ARP 256 VLANs	56Gbps line-rate	1G Copper: <3.35µs 1G Fiber: <2.5µs	IPv4: 32 IPv6: 32	512
GS728TPP								
GS752TP					104Gbps line-rate			
GS752TPP								

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.
1000BASE-X Fiber SFP ports	Four dedicated Gigabit 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	190W, 380W or 760W PoE budget available across 24 or 48 Gigabit PoE+ ports (802.3at) – 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 27.08dB at 25°C (77°F) ambient.
Energy Efficient Ethernet (IEEE 802.3az)	Maximum power reduction for onging 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.
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.
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.

Software Features (continued)	
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.
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.
Dual Firmware Images	Dual firmware images for transparent firmware updates with minimum service interruption.
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.

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

By activating the NETGEAR Insight Cloud management, the users will enable fundamental management features allowing businesses 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.

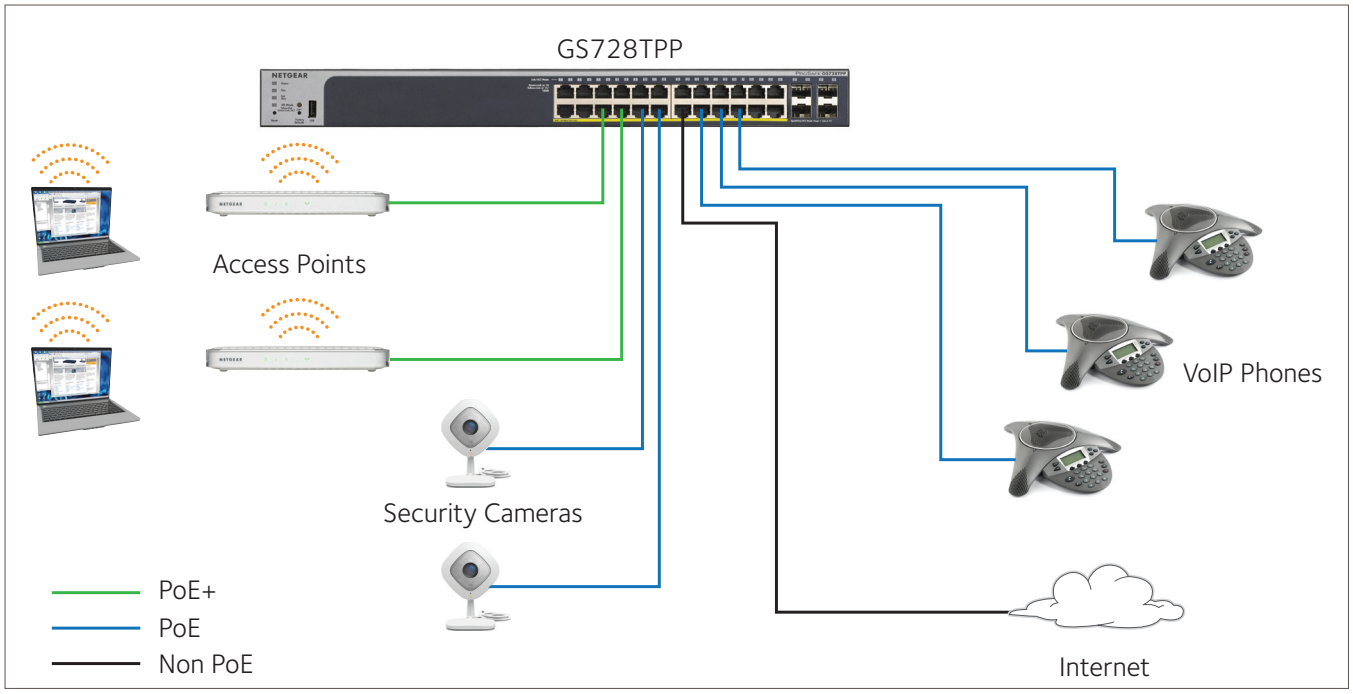
Unique advanced management features of these Insight Managed devices include:

- 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

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+ power (802.3at), 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 (GS728TP) or 380W (GS728TPP) PoE budget across 24 Gigabit PoE+ ports
- 380W (GS752TP) or 760W (GS752TPP) PoE budget across 48 Gigabit PoE+ ports
- 4 dedicated Gigabit SFP fiber ports for aggregation to the network core
- Quiet rack mounting operation with 27.08dB to 39.74dB 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	GS728TPv2	GS728TPPv2	GS752TPv2	GS752TPP
10M/100M/1G RJ-45 copper ports	24	24	48	48
PoE / PoE+ ports	24 PoE+ (190W PoE budget)	24 PoE+ (380W PoE budget)	48 PoE+ (380W PoE budget)	48 PoE+ (760W PoE budget)
1G SFP (fiber) ports	4 (dedicated)	4 (dedicated)	4 (dedicated)	4 (dedicated)
USB port (for config file upload/backup & firmware updates)	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	MIPS-34Kc 700MHz Single Core			
Packet buffer memory (Dynamically shared across only used ports)	1.5 MB	1.5 MB	1.5 MB	1.5 MB
Forwarding modes	Store-and-forward			
Bandwidth	56 Gbps	56 Gbps	104 Gbps	104 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)	41.67	41.67	77.38	77.38
Jumbo frame support (bytes)	Up to 10K packet size			
Acoustic noise level @ 25°C (dBA) (ANSI-S10.12)	27.08dBA	33.42dBA	36.94dBA	39.74dBA

Performance Specification	GS728TPv2	GS728TPPv2	GS752TPv2	GS752TPP
Mean Time Between Failures (MTBF) @ 25°C	1,250,365 hours	1,071,896 hours	1,737,411 hours	1,107,549 hours
100M Copper Latency (64-byte; 1518-byte; 9216-byte frames)	8.916µs; 9.258µs; 9.009µs	8.916µs; 9.258µs; 9.009µs	8.314µs; 8.612µs; 8.451µs	8.314µs; 8.612µs; 8.451µs
1G Copper Latency (64-byte; 1518-byte; 9216-byte frames)	3.388µs; 3.625µs; 3.716µs	3.388µs; 3.625µs; 3.716µs	3.614µs; 3.545µs; 3.628µs	3.614µs; 3.545µs; 3.628µs
1G Fiber Latency (64-byte; 1518-byte; 9216-byte frames)	3.204µs; 3.209µs; 3.298µs	3.204µs; 3.209µs; 3.298µs	2.980µs; 3.101µs; 3.179µs	2.980µs; 3.101µs; 3.179µs
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). Prioritzes 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			
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			
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			

L3 Services - Routing	GS728TPv2	GS728TPPv2	GS752TPv2	GS752TPP
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, v2c, 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			4096	
Control MAC # static entries			48	
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)	GS728TPv2	GS728TPPv2	GS752TPv2	GS752TPP
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). Prioritzes 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				
• 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	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			
Bonjour Discovery	Yes			
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	GS728TPv2	GS728TPPv2	GS752TPv2	GS752TPP
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	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)			
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	440 x 257 x 43.2 mm (17.3 x 10.1 x 1.7 in)	440 x 257 x 43.2 mm (17.3 x 10.1 x 1.7 in)	440 x 310 x 43.2 mm (17.3 x 12.2 x 1.7 in)	440 x 310 x 43.2 mm (17.3 x 12.2 x 1.7 in)
Weight	3.78 kg (8.32 lb)	4.11 kg (9.05 lb)	4.93 kg (10.86 lb)	5.03 kg (11.08 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)	226W	439W	446W	861W
Max power without PoE (worst case, all ports used, line-rate traffic) (Watts)	36W	59W	66W	101W
Iddle power consumption (all ports link-down standby) (Watts)	20W	22.5W	28W	30W
Heat Dissipation (worst case, all ports used, full PoE, line-rate traffic) (BTU/hr)	772.9 BTU/hr	1,501.3 BTU/hr	1,525.32 BTU/hr	2,944.6 BTU/hr
Energy Efficient Ethernet (EEE) IEEE 802.3az	Yes (deactivated by default)			
Fan	2	2	2	3

Environmental Specifications	GS728TPv2	GS728TPPv2	GS752TPv2	GS752TPP
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 mark, commercial FCC Part 15 Class A, VCCI Class A Class A EN 55022 (CISPR 22) Class A Class A C-Tick EN 55024 CCC 47 CFR FCC Part 15, SubpartB, Class A ICES-003: 2016 Issue 6, Class A ANSI C63.4:2014 IEC 60950-1:2005 (ed.2)+A1:2009+A2:2013 AN/NZS CISPR 22:2009+A1:2010 CLASS A			
Safety				
Certifications	CB mark, commercial CSA certified (CSA 22.2 #950) UL listed (UL 1950)/cUL IEC 950/EN 60950 EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 IEC 60950-1:2005 (ed.2)+A1:2009+A2:2013 AN/NZS 60950.1:2015 CCC (China Compulsory Certificate)			
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** OnCall 24x7 extends the 90-day phone and email warranty entitled technical support for standard and advanced features to the length of the contract term.	Category 1 PMB0311 (1 yr) PMB0331 (3 yrs) PMB0351 (5 yrs)	Category 1 PMB0311 (1 yr) PMB0331 (3 yrs) PMB0351 (5 yrs)	Category 2 PMB0312 (1 yr) PMB0332 (3 yrs) PMB0352 (5 yrs)	Category 2 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	
GS728TP	
GS728TP-200AJS	Asia Pacific and Australia
GS728TP-200EUS	Europe
GS728TP-200INS	India
GS728TP-200NAS	North America, Latin America
GS728TPP	
GS728TPP-200AJS	Asia Pacific and Australia
GS728TPP-200EUS	Europe
GS728TPP-200INS	India
GS728TPP-200NAS	North America, Latin America
GS752TP	
GS752TP-200AJS	Asia Pacific and Australia
GS752TP-200EUS	Europe
GS752TP-200INS	India
GS752TP-200NAS	North America, Latin America
GS752TPP	
GS752TPP-100AJS	Asia Pacific and Australia
GS752TPP-100EUS	Europe
GS752TPP-100INS	India
GS752TPP-100NAS	North America, Latin America

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

*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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