



S3300-28X, S3300-28X-PoE+, S3300-52X and S3300-52X-PoE+

The S3300 Series are a new generation of Gigabit Stackable Smart Managed Pro Switches inclusive of 4 10G ports, which can be used for uplinks and/or stacking between other S3300 switches. Mixed stacking with select M4300 10G switches (12X12F and 24X) allows 10G architecture that can both scale as organization networks grows and be powerful enough for server and storage applications. As SMBs produce and consume more data, Gigabit to the desktop increasingly needs to be underpinned with 10GbE connectivity to the core to ensure a consistent, seamless user experience. This new generation of switches provides SMB customers with the most cost-effective 10G connections between the access and aggregation layer of the network.

The S3300 Smart Managed Pro Stackable Series is the blueprint for a dependable future-proof network. From greenfield network requirements to network refresh projects, the S3300 series sets new standards in defining flexibility and choice for SMBs looking to leverage reliable, future proof technologies at affordable price points. Packed with rich enterprise-class feature sets and advanced security measures, it is the only advanced smart managed switch platform to offer both dedicated 10GBASE-T and SFP+ uplink and stacking connectivity in both PoE+ and non PoE configurations – a combination that delivers an unrivalled and powerful interconnect solution for access to core connectivity.

With a choice of 24 or 48 port models, these switches can deliver on demanding tasks such as data replication and backup, video on demand and high volume transaction processing. Up to 6 switches across the series can be stacked for a total of 288 Gigabit access network ports, with 40Gbps stacking bandwidth and full redundancy for unsurpassed reliability. Add in the ability to deliver PoE+ to every port with supplemental RPS and application diversity is readily supported from PTZ IP camera surveillance solutions through to high powered wireless access points and VoIP phones. The inclusion of 10GBASE-T uplink capability as standard ensures an affordable way to leverage existing copper installations – if Gigabit speeds and link aggregation meets current requirements, simply migrate to 10GbE connectivity at a pace and time to suit your needs. With lifetime warranty, lifetime NBD and lifetime online technical chat to back you up, you'll have access to an extensive support service to help protect your investment and reduce downtime risk over the long term.

### Highlights

#### Most Flexible and Cost-Effective Migration path to 10G

- 4 Dedicated 10G ports
- Gigabit and 10G network migration path
- A powerful interconnect link between access and aggregation
- 10G Fiber and copper can be used flexibly for either stacking and/or uplinks

#### Enhanced and Powerful

- Auto-Voice VLAN for easy development of VoIP
- Auto-Video for simple deployment of IP Surveillance
- Static routing, helps to route internal traffic for more efficient use of network resources
- IGMP and MLD snooping, providing advanced multicast filtering
- Extensive PoE+ capabilities extendable to 1,440W with supplemental RPS solution

- Solid performance with non-blocking architecture, 8K MAC addresses, 256 VLANs, 480 shared ACL entries, 32 static routes, and 1,024 Multicast Groups
- Comprehensive IPv6 supporting management, QoS and ACL, ensuring investment protection and a smooth migration to IPv6-based network
- Dedicated SFPs instead of combo ports, offering more connectivity ports and providing better value and usability at no extra cost
- Energy Efficient Ethernet (IEEE 802.3az) support for more energy saving in the future when more EEE-compliant end devices come to market
- Advanced QoS with IPv4/IPv6 ingress traffic filtering (ACLs) and prioritization (QoS - DiffServ)
- Dynamic VLAN assignment for easy user authentication and location-independent access to network
- USB for easy access firmware updates

#### Smart IT, not Big IT

- Easy to manage via web-Based Management GUI or Smart Control Center (Windows PC required) for multi-switch deployment
- Smart Control Center, a powerful tool for multi-switch discovery, deployment, monitoring and firmware upgrade
- Network Management System (NMS300), allowing all NETGEAR business products to be deployed and managed through this single interface
- Dual firmware images, improving reliability and uptime to your network
- Worry-free with NETGEAR Lifetime warranty\*, Lifetime online Technical chat support and Lifetime Next Business Day replacement



### Hardware at a Glance

PORT CONFIGURATION					
Model Name	10/100/1000Base-T RJ45 ports	PoE+ ports	100/1000/10GBASE-T RJ45 ports	1000/10GBASE-X Fiber SFP+ ports	Part Number
S3300-28X	24		2 dedicated	2 dedicated	GS728TX
S3300-28X-PoE+	24	24	2 dedicated	2 dedicated	GS728TXP
S3300-52X	48		2 dedicated	2 dedicated	GS752TX
S3300-52X-PoE+	48	48	2 dedicated	2 dedicated	GS752TXP

SYSTEM SPECIFICATION						
Model Name	Redundant Power Supply (RPS) (Optional)	RPS Connector	PoE Budget	Storage (image, config, log files)	Fan	Part Number
S3300-28X			-	1 x USB	1	GS728TX
S3300-28X-PoE+	1 (RPS4000v2)	1 (RPS)	195W (extendable to 720W with RPS solution)		2	GS728TXP
S3300-52X			-		2	GS752TX
S3300-52X-PoE+	1 (RPS4000v2)	1 (RPS)	390W (extendable to 1,440W with RPS solution)		3	GS752TXP



#### S3300-28X: 28-port Gigabit Stackable Smart Managed Pro Switch

- 24 Gigabit copper ports
- 2 dedicated 10G SFP+ Fiber ports supporting 10G and 1000M speeds (stacking at 10G only)
- 2 dedicated 10GBASE-T copper ports supporting 10G/1G/100M speeds (stacking at 10G only)



#### S3300-28X-PoE+: 28 PoE+ port Gigabit Stackable Smart Managed Pro Switch

- 24 PoE+-capable Gigabit copper ports
- PoE Budget of 195W extendable to 720W with supplemental RPS
- 2 dedicated 10G SFP+ Fiber ports supporting 10G and 1000M speeds (stacking at 10G only)
- 2 dedicated 10GBASE-T copper ports supporting 10G/1G/100M speeds (stacking at 10G only)



#### S3300-52X: 52-port Gigabit Stackable Smart Managed Pro Switch

- 48 Gigabit copper ports
- 2 dedicated 10G SFP+ Fiber ports supporting 10G and 1000M speeds (stacking at 10G only)
- 2 dedicated 10GBASE-T copper ports supporting 10G/1G/100M speeds (stacking at 10G only)



#### S3300-52X-PoE+: 52 PoE+ port Gigabit Stackable Smart Managed Pro Switch

- 48 PoE+-capable Gigabit copper ports
- PoE Budget of 390W extendable to 1,440W with RPS
- 2 dedicated 10G SFP+ Fiber ports supporting 10G and 1000M speeds (stacking at 10G only)
- 2 dedicated 10GBASE-T Copper Ports supporting 10G/1G/100M speeds (stacking at 10G only)

### Software at a Glance

	LAYER 2+ FEATURES						
Model Name	IPv4/IPv6 ACL and QoS	IPv4/IPv6 Multicast Filtering	Auto-VoIP Auto-Video	VLANs	Convergence	IPv4 Static Routing	Part Number
S3300-28X	L2, L3, L4, ingress	IGMP and MLD Snooping and Querier mode, MVR	Yes	Port, Dynamic, Voice, Video, MAC, Protocol-based, Private VLANs Guest VLANs	LLDP-MED, RADIUS, 802.1x, PoE timer	Yes (Port-based, and VLANs)	GS728TX
S3300-28X-PoE+							GS728TXP
S3300-52X							GS752TX
S3300-52X-PoE+							GS752TXP

### Performance at a Glance

	TABLE SIZE							
Model Name	Packet buffer	CPU	ACLs	MAC ARP VLANs	Static Routes	Multicast IGMP Group membership	IP Multicast Forwarding Entries	Part Number
S3300-28X	12Mb	400Mhz 256M RAM 64M Flash	100 shared ACLs (MAC, IPv4, IPv6 and TCP/UDP based)	16K MAC 512 ARP VLANs: 256	32 IPv4	512	512	GS728TX
S3300-28X-PoE+	12Mb							GS728TXP
S3300-52X	12Mb							GS752TX
S3300-52X-PoE+	12Mb							GS752TXP

### S3300 True Stacking

NETGEAR stacking feature provides resilient network architecture: up to six (6) S3300 switches can be stacked with a single management IP address, which simplifies network operations. VLAN and QoS can be managed in a unified fashion across the stack. Up to 288 Gigabit access ports and 12 available 10-Gigabit uplinks offer support for high-density developments as well as flexibility for future network expansion need.

The S3300 architecture offers a 40Gbps bi-directional stacking backplane with two (2) 10G stacking ports per switch, built-in redundancy and auto-failover. The stacking capability allows for master and slave switches with a secondary master as back-up. The backup master can quickly take over the failed master switch function. Failed switches can be hot-swapped with the rest of the switches in the stack unaffected and operational.

Please note that stacking is supported at 10-Gigabit speeds (with either 10GBASE-T Copper or SFP+ Fiber modules) only. 1G stacking is not supported.

Now stacking with 10G switches: for additional 10G connectivity, S3300 switches can stack with M4300-12X12X and M4300-24X 10G models. M4300 switches scale down to S3300 feature set when mixed stacking. Four (4) 10G stacking ports per switch can be used on each M4300 model running S3300 code. S3300 1G models can still use two (2) 10G stacking ports when mixed stacking, the stacking topology remains the same.

### Features at a glance

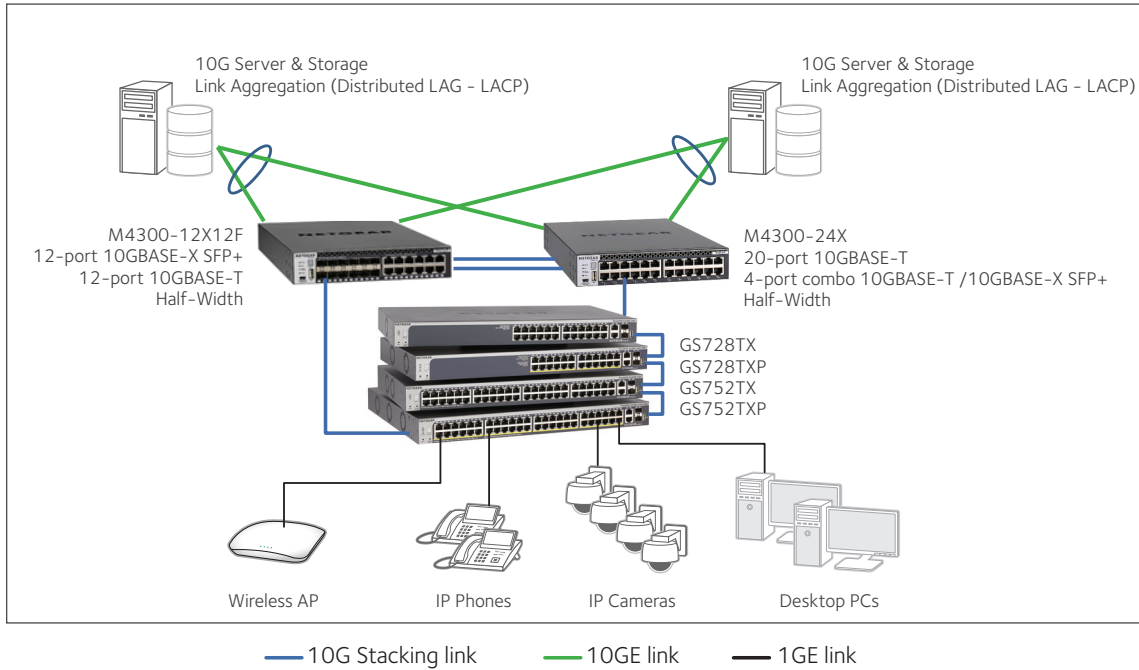
S3300-28X, S3300-28X-PoE+, S3300-52X and S3300-52X-PoE+

HARDWARE FEATURES	BENEFITS
2 Dedicated SFP+Fiber uplinks/stacking ports	Dedicated SFP+ ports provides fiber uplinks without sacrificing any downlink Gigabit port. 2 SFP+ ports provide not only redundant uplinks, but can also build dual redundancy by a trunked uplink with link aggregation and failover redundancy. Note that stacking requires the use of SFP+ (10G) modules only.
2 Dedicated 10GBASE-T uplink/stacking ports	Dedicated 10GBASE-T ports supporting 10G/1G/100M speeds can be used for redundant uplinks, or for stacking at 10G speeds only.
PoE+ Support on all ports (PoE models)	Flexible to plug-in or change into high-power PD devices on any port without worrying which one port to plug in and whether it will be running out of PoE+ ports.
One USB port on the rear of chassis	Quickly and conveniently upgrade or restore firmware.
Energy Efficient Ethernet (IEEE 802.3az)	Maximum power reduction for ongoing operational cost savings.
Stacking with up to 6 switches and 40G bi-directional bandwidth	Improved network reliability and resiliency. Easy management and great Solution for virtualized environments.
SOFTWARE FEATURES	BENEFITS
Dynamic VLAN assignment	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 in the network.
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.
Comprehensive IPv6 support for management, ACL and QoS	Build current network with future in mind. Ensure investment protection and a smooth migration to IPv6-based network without switch replacement.
IGMP snooping and MLD snooping	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.
Robust security features	Build a secured, converged network with all types of traffic by preventing external attacks and blocking malware while allowing secure access for authorized users. <ul style="list-style-type: none"> <li>• 802.1x authentication (MD5)</li> <li>• DHCP Filtering</li> <li>• Port-based security by locked MAC</li> <li>• ACL filtering to permit or deny traffic based on MAC and IP addresses</li> </ul>
Auto-Voice and Auto-Video	Automatic Voice over IP prioritization with Auto-VoIP simplifies most complex multi-vendor IP telephone deployments either based on protocols (SIP, H323 and SCCP) 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. When deployed IP phones are LLDP-MED compliant, the Voice VLAN will use LLDP-MED to pass on the VLAN ID, 802.1P priority and DSCP values to the IP phones, accelerating convergent deployments.
Comprehensive QoS features	Advanced controls for optimized network performance and better delivery of mission-critical traffic such as voice and video. <ul style="list-style-type: none"> <li>• 802.1p-based prioritization</li> <li>• Layer 3-based (DSCP) prioritization</li> <li>• Port-based egress rate limiting</li> </ul>
DHCP snooping	Ensure IP address allocation integrity by allowing only clients with specific IP/MAC addresses to have access to the network.
Dual firmware Images and configuration files	Dual firmware image and dual configuration file for transparent firmware updates/configuration changes with minimum service interruption.
Protected ports	Ensure no exchange of unicast, broadcast, or multicast traffic between the protected ports on the switch, therefore, improve the security of your converged network where your sensitive phone conversation can stay private and your surveillance video clips can be forwarded to their designated storage device without leakage or alteration.
Dynamic ARP inspection	Prevents a class of man-in-the-middle attacks, where an unfriendly station intercepts traffic for other stations by poisoning the ARP caches of its unsuspecting neighbors.
Multicast VLAN registration	Eliminates the replication of the same multicast traffic for every VLAN by sending multicast traffic only on to the dedicated multicast/source VLAN, resulting in more efficient utilization of network bandwidth.
EAV (Ethernet Audio/Video Bridging) support <sup>1</sup>	Extends Ethernet usage to support multimedia streaming. The Ethernet AVB standard adds QoS (Quality of Service) features like time-synchronized low latency streaming services and bandwidth reservation to make it possible to carry professional quantity audio and video signals on a standard Ethernet line.

<sup>1</sup> EAV support can be acquired through the purchase of EAV software license that is sold separately from the switch. Please refer to ordering information for part numbers of these licenses.

### Migration path to 10G Networks for SMB

#### Collapsed Core: Mixed Stacking with M4300 models

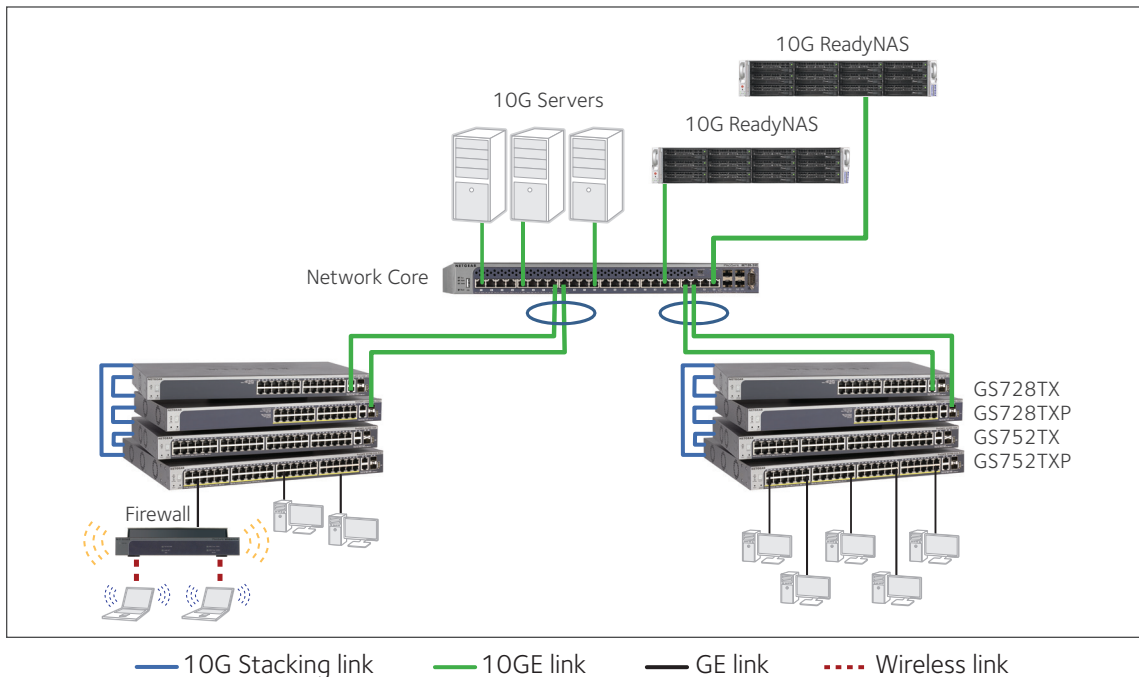


#### Why the NETGEAR latest generation of Gigabit Stackable Smart Managed Pro Switch with 10G links is the right choice for SMBs?





NETGEAR Gigabit Stackable Smart Managed Pro Switches offer the most cost-effective migration path to 10G network:

- Well-positioned for 10G network upgrade into aggregation switches, servers and network storage devices while offering Gigabit to the network edge
- Stacking capability for redundancy, improved resiliency and ease-of-management
- Improved usability for easier and smoother deployment of voice, video and WLAN on the same converged platform
- Lifetime warranty on hardware, lifetime next-business-day (NBD) replacement, lifetime tech support online chat, and 1-year Free Advanced Tech Support\* for peace-of-mind.

#### Access Layer: S3300 Stack



### Technical Specifications

PRODUCT	S3300-28X	S3300-28X-PoE+	S3300-52X	S3300-52X-PoE+
				
10/100/1000Mbps ports	24	24	48	48
10-Gigabit ports	4 Dedicated (2 Copper and 2 Fiber)			
<b>PERFORMANCE SPECIFICATION</b>				
Forwarding modes	Store-and-forward			
Bandwidth	128Gbps	128Gbps	176Gbps	176Gbps
Packet Forwarding Rate (64 byte packet size) (Mfps or Mpps)	95.2	95.2	130.9	130.9
Priority queues	8	8	8	8
Priority queuing	Weighted Round Robin (WRR)			
MAC address database size	16k media access control (MAC) addresses			
Addressing	48-bit MAC address			
Multicast groups	512			
Number of static routes	32			
Number of routed VLANs	15			
Number of ARP cache entries	512			
Number of DHCP snooping bindings	8K			
Access Control Lists (ACLs)	100 shared for MAC, IP and IPv6 ACLs			
Jumbo frame support (bytes)	Up to 9,216 bytes packet size			
Acoustic noise (ANSI-S10.12)	40dBA	36.8dBA	39dBA	40dBA
Mean Time Between Failures (MTBF) @ 25°C	278,559 hours	147,965 hours	279,970 hours	216,809 hours
<b>L2 SERVICES - VLANS</b>				
IEEE 802.1Q VLAN tagging	Yes			
IP-based VLANs	Yes			
MAC-based VLANs	Yes			
Auto-Voice VLAN	Based on phones OUI bytes (internal database, or user-maintained) or protocols (SIP, H323 and SCCP)			
Auto-Video VLAN	Yes			
<b>L2 SERVICES - AVAILABILITY</b>				
IEEE 802.3ad - LAGs	Yes			
Broadcast storm control	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			

### Technical Specifications

PRODUCT	S3300-28X	S3300-28X-PoE+	S3300-52X	S3300-52X-PoE+
<b>L2 SERVICES - MULTICAST FILTERING</b>				
IGMP snooping (v1, v2 and v3)			Yes	
MLD snooping support (v1 and v2)			Yes	
IGMP snooping queries			Yes	
Block unknown multicast			Yes	
Multicast VLAN Registration (MVR)			Yes	
<b>L3 SERVICES - DHCP</b>				
DHCP client			Yes	
DHCP snooping			Yes	
<b>L3 SERVICES - IPV4 ROUTING</b>				
Static routing			32	
Host ARP table			512	
Router Discovery (IRDP)			Yes	
<b>LINK AGGREGATION</b>				
IEEE 802.3ad - LAGs			Yes	
Manual LAG			Yes	
# of LAGs / # of members in each LAG	26 LAGs with max 8 members in each LAG			
<b>STACKING</b>				
Stacking Interface	10G SFP+ or 10GBASE-T copper (both at 10G speeds only)			
Max. number of switches within a stack	up to 6			
Stacking bandwidth	40G bi-directional (two 10G stacking ports per switch)			
Mixed stacking	S3300 switches can stack with M4300 select 10G models (M4300-12X12F and M4300-24X) running S3300 software. Upgrading procedures and restrictions apply; please refer to the "Mixed Stacking with M4300" Application Note.			
<b>NETWORK MONITORING AND DISCOVERY SERVICES</b>				
802.1ab LLDP			Yes	
SNMP			v1, v2c, v3	
RMON group 1,2,3,9			Yes	
<b>NETWORK SECURITY</b>				
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	

### Technical Specifications

PRODUCT	S3300-28X	S3300-28X-PoE+	S3300-52X	S3300-52X-PoE+
MAC-based ACLs			Yes	
TCP/UDP-based ACLs			Yes	
MAC lockdown			Yes	
MAC lockdown by the number of MACs			Yes	
IEEE 802.1x RADIUS port access authentication			Yes	
Port-based security by locked MAC addresses			Yes	
IP source guard			Yes	
Dynamic ARP inspection			Yes	
Dynamic learned entries			600	
Static entries			20	
Network storm protection, DoS			Yes	
Broadcast, unicast, multicast DoS protection			Yes	
DoS attacks prevention			Yes	
<b>QUALITY OF SERVICE (QOS)</b>				
Access Lists			Yes	
L2 MAC, L3 IP and L4 port ACLs			Yes	
Port-based rate limiting			Egress only	
Port-based QoS			Yes	
Support for IPv6 fields			Yes	
DiffServ QoS			Yes	
IEEE 802.1p COS			Yes	
Destination MAC and IP			Yes	
IPv4 and v6 DSCP			Yes	
TCP/UDP-based			Yes	
WRR (Weighted Round Robin)			Yes	
Strict priority queue technology			Yes	
Timing and Synchronization for Time-Sensitive Applications (IEEE 802.1AS)			Yes <sup>1</sup>	
Stream Reservation Protocol (SRP) (IEEE 802.1Qat)			Yes <sup>1</sup>	
Forwarding and Queuing for Time-Sensitive Streams (IEEE 802.1Qav)			Yes <sup>1</sup>	
Audio Video Bridging Systems (IEEE 802.1BA)			Yes <sup>1</sup>	
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	Yes (up to 24 ports simultaneously)			

<sup>1</sup> EAV support can be acquired through the purchase of EAV software license that is sold separately from the switch. Please refer to ordering information for part numbers of these licenses.



### Technical Specifications

PRODUCT	S3300-28X	S3300-28X-PoE+	S3300-52X	S3300-52X-PoE+
<b>IEEE NETWORK PROTOCOLS</b>				
<ul style="list-style-type: none"> <li>• IEEE 802.3 Ethernet</li> <li>• IEEE 802.3i 10BASE-T</li> <li>• IEEE 802.3u 100BASE-T</li> <li>• IEEE 802.3ab 1000BASE-T</li> <li>• IEEE 802.1Q VLAN Tagging</li> <li>• IEEE 802.3x Full-Duplex Flow Control</li> <li>• IEEE 802.1Qav<sup>1</sup></li> <li>• IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX</li> <li>• IEEE 802.3ae 10-Gigabit Ethernet Over Fiber (10GBASE-SR, 10GBASE-LR, 10GBASE-ER, 10GBASE-LX4)</li> <li>• IEEE 802.3an 10GBASE-T 10 Gbit/s Ethernet Over Copper Twisted Pair Cable</li> </ul>		<ul style="list-style-type: none"> <li>• IEEE 802.3ad Trunking (LACP)</li> <li>• IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)</li> <li>• IEEE 802.1p Class of Service</li> <li>• IEEE 802.1Qat<sup>1</sup></li> <li>• IEEE 802.1D Spanning Tree (STP)</li> <li>• IEEE 802.1s Multiple Spanning Tree (MSTP)</li> <li>• IEEE 802.1w Rapid Spanning Tree (RSTP)</li> <li>• IEEE 802.1x RADIUS Network Access Control</li> <li>• IEEE 802.1BA<sup>1</sup></li> <li>• IEEE 802.1AS<sup>1</sup></li> </ul>		
<b>MANAGEMENT</b>				
Password management			Yes	
Configurable management VLAN			Yes	
Admin access control via RADIUS and TACACS+			Yes	
Web-based graphical user interface (GUI)			Yes	
Smart Control Center (SCC) for multi-switch management			Yes	
IPv6 management			Yes	
Dual software (firmware) image			Yes	
Dual configuration file			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	
Many-to-one port mirroring			Yes	
Cable test utility			Yes	
SSL/HTTPS and TLS v1.0 for Web-based access			Yes	
File transfers (uploads, downloads)			TFTP / HTTP	
HTTP upload/download (firmware)			Yes	
Syslog (RFC 3164)			Yes	
USB port for firmware and config upload/download			Yes	

<sup>1</sup> EAV support can be acquired through the purchase of EAV software license that is sold separately from the switch. Please refer to ordering information for part numbers of these licenses.

### Technical Specifications

PRODUCT	S3300-28X	S3300-28X-PoE+	S3300-52X	S3300-52X-PoE+
<b>LEDS</b>				
Per port	Speed, Link, Activity			
Per device	Power, Fan, and PoE (GS728TXP and GS752TXP only)			
<b>POE CONFIGURATION</b>				
Number of PoE+ ports		24		48
Total PoE power budget (watts), without RPS		195W		390W
RPS support: RPS mode, max. PoE power budget with RPS		720W		1440W
<b>PHYSICAL SPECIFICATIONS</b>				
Dimensions	440 x 257 x 43mm	440 x 257 x 43mm	440 x 257 x 43mm	440 x 345 x 43mm
Weight	3.14kg	3.77kg	3.66kg	5.54kg
<b>POWER CONSUMPTION (WHEN ALL PORTS USED, LINE-RATE TRAFFIC AND MAX POE)</b>				
Worst case, all ports used, line-rate traffic	28.18W	748.18W	44.12W	1484.12W
<b>ENVIRONMENTAL SPECIFICATIONS</b>				
<b>Operating</b>				
Operating temperature	32° to 122°F (0° to 50°C)			
Humidity	90% maximum relative humidity, non-condensing			
Altitude	10,000 ft (3,000 m) maximum			
<b>Storage</b>				
Storage temperature	- 4° to 158°F (-20° to 70°C)			
Humidity	95% maximum relative humidity, non-condensing			
Altitude	10,000 ft (3,000 m) maximum			
<b>ELECTROMAGNETIC EMISSIONS AND IMMUNITY</b>				
Certifications	CE: EN 55032:2012+AC:2013/CISPR 32:2012, EN 61000-3-2:2014, Class A, EN 61000-3-3:2013, EN 55024:2010			
	UL listed (UL 1950)/cUL IEC 950/EN 60950			
	CE LVD: EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013			
	RCM (AS/NZS) 60950.1:2015			
	CCC (China Compulsory Certificate): GB4943.1-2011; YD/T993-1998; GB/T9254-2008 (Class A)			
	BSMI: CNS 14336-1			

### Technical Specifications

PRODUCT	S3300-28X	S3300-28X-PoE+	S3300-52X	S3300-52X-PoE+
<b>SAFETY</b>				
Certifications	CB report / certificate IEC 60950-1:2005 (ed.2)+A1:2009+A2:2013			
	UL listed (UL 1950)/cUL IEC 950/EN 60950			
	CE LVD: EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013			
	RCM (AS/NZS) 60950.1:2015			
	CCC (China Compulsory Certificate): GB4943.1-2011; YD/T993-1998; GB/T9254-2008 (Class A)			
	BSMI: CNS 14336-1			
<b>WARRANTY AND SUPPORT</b>				
ProSAFE Lifetime Warranty	Included, Lifetime*			
Lifetime 24x7 Online Technical Support*	Included, Lifetime*			
Lifetime Next-Business-Day (NBD) Replacement	Included, Lifetime*			
ProSUPPORT OnCall 24x7	Category 2** Service Packs PMB0312 (1 yr.) PMB0332 (3 yr.) PMB0352 (5 yr.)		Category 3** Service Packs PMB0313 (1 yr.) PMB0333 (3 yr.) PMB0353 (5 yr.)	
<b>PACKAGE CONTENT</b>				
All Models	Gigabit Stackable Smart Managed Pro Switch, S3300 Series			
	Power cord			
	Rack-mounting kit			
	Hardware installation guide			
	Resource CD with links to online documentation, installation guides, Web-management user manual, Smart Control Center (SCC) software and user guide.			

### Ordering Information

ORDERING INFORMATION	
GS728TX-100NES	North America, Latin America and Europe
GS728TX-100AJS	Asia Pacific
GS728TX-100PRS	China
GS728TX-100INS	India
GS728TXP-100NES	North America, Latin America and Europe
GS728TXP-100AJS	Asia Pacific
GS728TXP-100PRS	China
GS752TX-100NES	North America, Latin America and Europe
GS752TX-100AJS	Asia Pacific
GS752TX-100PRS	China
GS752TXP-100NES	North America, Latin America and Europe
GS752TXP-100AJS	Asia Pacific
GS752TXP-100PRS	China
OPTIONAL MODULES, SOFTWARE LICENSES AND ACCESSORIES	
GS728TXAV-10000S	Ethernet Audio/Video (EAV) software license for GS728TX-100
G728TXPAV-10000S	Ethernet Audio/Video (EAV) software license for GS728TXP-100
GS752TXAV-10000S	Ethernet Audio/Video (EAV) software license for GS752TX-100
G752TXPAV-10000S	Ethernet Audio/Video (EAV) software license for GS752TXP-100
AXM761-10000S	SFP+ Transceiver 10GBASE-SR (Short range, multimode)
AXM762-10000S	SFP+ Transceiver 10GBASE-SR (Long range, single mode)
AXM763-10000S	SFP+ Transceiver 10GBASE-LRM (Long range, multimode)
AXM764-10000S	SFP+ Transceiver 10GBASE-LR Lite (Long range lite, single mode)
AXM765-10000S	SFP+ Transceiver 10GBASE-T Copper RJ45 GBIC - up to 30 meters only
AGM731F-10000S	SFP Transceiver 1000BASE-SX (Short range, multimode). Note: Stacking requires 10G SFP+ modules.
AGM732F-10000S	SFP Transceiver 1000BASE-LX (Long range, single mode). Note: Stacking requires 10G SFP+ modules.
AGM734-10000S	SFP Transceiver 1000BASE-T (Short range, RJ45 copper). Note: Stacking requires 10G SFP+ modules.
AFM735-10000S	SFP Transceiver 100BASE-FX (Long range, multimode). Note: Stacking requires 10G SFP+ modules.
AXC761-10000S	SFP+ DAC CABLE (1m)
AXC763-10000S	SFP+ DAC CABLE (3m)
RPS4000v2	External Redundant Power Supply
APS1000W	Power supply unit; provides 800W power in combination with an RPS4000 (2 x APS1000W to provide up to 1,440W full PoE+)

\* This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller, and modifications to product may void the warranty; covers hardware, fans, and internal power supplies—not software or external power supplies; see <http://www.netgear.com/about/warranty/> for details. Lifetime technical support includes basic phone support for 90 days from purchase date and lifetime online chat support when purchased from a NETGEAR authorized reseller.

\*\* 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 Web/Smart Switches, June 2018. NETGEAR #1 in Europe Market Share according to Context data for Unmanaged and Web/Smart Switches, June 2018.

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