



Experience the most versatile and easy to manage Advanced Smart switches in the market

As a leading provider of network equipment for SMBs, NETGEAR® understands the importance of reliable and high performance networks. With the growth of virtualization, cloud-based services and applications like VoIP, video streaming and IP surveillance, SMB networks need to extend beyond simple reliability to simpler management and remote monitoring to ensure your network is "always up". NETGEAR also understands that small business owners shouldn't have to understand networking and IT; they need a network that's easy-to-setup and is reliable, so they can focus on their business, not their network. To that end, NETGEAR is introducing our most versatile and easy-to-manage switches ever, NETGEAR Smart switches with optional remote/cloud management.

The Smart switches with optional remote/cloud management are the first switches from NETGEAR with anywhere configuration and management.

Using either the NETGEAR Insight app on your mobile device or tablet, or the Insight Cloud Portal from your PC, Mac, or tablet, you can quickly discover, setup, monitor and manage these switches from anywhere in the world! With their remote cloud manageability, sleek design silent or whisper-quiet operation, they are the most versatile switches in the market for any environment. Whether at home, out of the office or on a business trip, you can still manage and monitor your network as if you were right there.

Innovative features for the most versatile and easyto-manage switches in the market

Your network. Anytime. Anywhere.

The NETGEAR Smart switches with optional remote/cloud management fundamentally change the way you think of networks and IT. Using the NETGEAR Insight app with select Smart switches with optional remote/cloud management and Wireless Access Points provides:

• Instant in-app discovery & set-up

- Local or remote configuration and monitoring from your mobile device, PC, Mac or tablet
- Centralized network configuration polices with auto-join and configure (zero-touch provisioning)
- Multi-site/remote network management and monitoring with single pane-ofglass view
- Multi-switch/multi-port concurrent configuration using the Port Config Wizard

Remote monitoring and management from the palm of your hand!

With the NETGEAR Insight app, you can setup, manage, and monitor your networks from anywhere, anytime, from the palm of your hand on your phone or tablet! Or, for a larger screen experience, you can use the Insight Cloud Portal from your PC, Mac, or tablet web browser.

NETGEAR[®] B U S I N E S S

Data Sheet | GC728X, GC728XP, GC752X, GC752XP Smart Gigabit Ethernet/10G SFP+ Switches with optional Remote Management

Network-centric configuration and management

NETGEAR Smart switches with optional remote/cloud management and Wireless Access Points using the NETGEAR Insight app allow for cross-device automated configuration of VLANs, QoS, ACLs, and LAGs. Auto-join and configure (zerotouch privisioning) allows for additional devices added seamlessly.

Fully-integrated cloud-manageable devices

NETGEAR Smart switches with optional remote/cloud management are fullyintegrated, cloud-manageable, plugand-play devices. Just connect to your network and without any setup, they're passing traffic. For configuration setup, management, and monitoring, you can use the Insight mobile app on your mobile device or the Insight Cloud Portal from your PC, Mac, or tablet web browser. No additional cloud controller, appliance, network manager, or onpremise cloud server necessary.

Clean, sleek silent (or whisper-quiet) designs

Select Smart switches with optional remote/cloud management have a modern, clean design, with at-a-glance cloud, power, fan, and PoE max¹ LEDs for quick status monitoring. On-port LEDs for link/activity and PoE power¹ allow for port-specific connectivity monitoring.

Connectivity options for every environment

GC728X and GC728XP have 24 copper Gigabit Ethernet ports; GC752X and GC752XP have 48 copper Gigabit Ethernet ports. All models also have two dedicated 1G SFP fiber ports, and two dedicated 10G SFP+ fiber ports for maximum connectivity. On PoE+ models (GC728XP and GC752XP), all Gigabit Ethernet copper ports support PoE or PoE+, with a PoE power budget of 390W (GC728XP) and 505W (GC752XP). Dedicated Gigabit SFP and 10G SFP+ ports provide fiber uplinks for server interconnects or across long distances, or can be used to build dual redundancy by a trunked uplink with link aggregation and failover.

Build a future-proof network with NETGEAR Smart switches

- Extensive L2+/L3 Lite switching features including static routing
- Comprehensive IPv6 management, QoS and ACL support, ensuring investment protection and a smooth migration to IPv6-based networking
- Advanced QoS with IPv4/IPv6 ingress traffic filtering (ACLs) and prioritization (QoS)
- Dynamic VLAN assignment for easy user authentication and location independent access to network
- Strong PoE+ power budgets of 390W (GC728XP) and 505W (GC752XP) have the flexibility to serve powerhungry devices such as 11ac and 11ax Wireless APs, VoIP voice and video phones, security/surveillance cameras including PTZ, and other IoT devices
- Advanced per-port PoE controls1 (set specific power budget per port in addition to automatic class-defined) and PoE scheduling

NETGEAR quality and reliability

- Industry-leading 5-year Limited Hardware Warranty*
- Minimal down-time with Next-Business-Day Replacement Warranty
- Get deployment assistance with 90-days Free Advanced Technical Support**





Hardware at a Glance

	FRONT						REAR	SIDE	
Model Name	Form-Factor	LEDs (System)	Gigabit Copper (RJ-45) Ports	1G SFP Fiber Ports	10G SFP+ Fiber Ports	PoE/PoE+ Ports (Budget)	LEDs (Per Port)	Power Supply	Fans
GC728X	Rackmount, Desktop	Cloud, Power, Fan	24	2 (dedicated)	2 (dedi- cated)	N/A	Speed/Link/ Activity	1 internal PSU, fixed	1 internal fan, fixed
GC728XP	Rackmount, Desktop	Cloud, Power, PoE Max, Fan	24	2 (dedicated)	2 (dedi- cated)	24 PoE+ (390W)	Speed/Link/ Activity, PoE	1 internal PSU, fixed	2 internal fans, fixed
GC752X	Rackmount, Desktop	Cloud, Power, Fan	48	2 (dedicated)	2 (dedi- cated)	N/A	Speed/Link/ Activity	1 internal PSU, fixed	1 internal fan, fixed
GC752XP	Rackmount, Desktop	Cloud, Power, PoE Max, Fan	48	2 (dedicated)	2 (dedi- cated)	48 PoE+ (505W)	Speed/Link/ Activity, PoE	1 internal PSU, fixed	3 internal fans, fixed

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GC728X: 28-Port Gigabit Ethernet Smart Switch w/2 SFP and 2 SFP+ 10G Fiber Ports

- 24 x 1000BASE-T Copper ports supporting 1G/100M speeds
- 2 x 1000BASE-X Dedicated SFP Fiber ports
- 2 x 10GBASE-X Dedicated SFP+ Fiber ports supporting 10G/1G speeds
- Max 28dB @ 25°C / 77°F ambient



GC728XP: 28-Port Gigabit Ethernet PoE+ Smart Switch w/2 SFP and 2 SFP+ 10G Fiber Ports

- 24 x 1000BASE-T PoE+ Copper ports supporting 1G/100M speeds
- 2 x 1000BASE-X Dedicated SFP Fiber ports
- 2 x 10GBASE-X Dedicated SFP+ Fiber ports supporting 10G/1G speeds
- 390W PoE budget (max 39dB @ 25°C / 77°F ambient)

GC752X: 52-Port Gigabit Ethernet Smart Switch w/2 SFP and 2 SFP+ 10G Fiber Ports

- 48 x 1000BASE-T Copper ports supporting 1G/100M speeds
- 2 x 1000BASE-X Dedicated SFP Fiber ports
- 2 x 10GBASE-X Dedicated SFP+ Fiber ports supporting 10G/1G speeds
- Max 29dB @ 25°C / 77°F ambient

GC752XP: 52-Port Gigabit Ethernet PoE+ Smart Switch w/2 SFP and 2 SFP+ 10G Fiber Ports

- 48 x 1000BASE-T PoE+ Copper ports supporting 1G/100M speeds
- 2 x 1000BASE-X Dedicated SFP Fiber ports
- 2 x 10GBASE-X Dedicated SFP+ Fiber ports supporting 10G/1G speeds
- 505W PoE budget (max 33dB @ 25°C / 77°F ambient)



Software at a Glance

MANA	MANAGEMENT			LAYER 2+ / LAYER 3 LITE FEATURES							
Device Management	Network Management Features	IPv4/IPv6 ACL and QoS	IPv4/IPv6 Multicast Filtering	VLANs	Auto-VoIP, Auto-Video	Convergence	Link Aggregation/ Port Trunking	IPv4 & IPv6 Static Routing			
Local web browser- based management GUI, SNMP, RMON Optional NETGEAR Insight mobile app or Insight Cloud Portal for local/remote/anywhere management from your mobile device, PC, Mac, or tablet IPv4 & IPv6 management	Centralized network configuration (policies) Auto-join & configure (zero-touch provisioning) Multi-site, multi-network single pane-of-glass view Multi-switch/multi-port concurrent configuration	L2, L3, L4 Ingress	IGMP and MLD Snooping	Static, Dynamic, Voice, Video, MAC, Protocol- based, and Private	Yes	LLDP-MED, RADIUS, 802.1X	LACP and Manual Static LAGs (up to 24 LAGs with max 8 mem- bers)	Yes			

Performance at a Glance

Model Name	CPU & Memory	Fabric (Full- duplex)	Latency (64-byte Packet @ Max Connection Speed)	Packet Buffer	Packet Forwarding Rate (64-byte)	ACLs	MAC Address Table ARP/NDP Table VLANs	Static Routes (IPv4 & IPv6)	Priority Qeues	Mul- ticast IGMP Groups
GC728X	400 MHz Cortex-	92Gbps	1G Copper: 3.200 µs	1.5 MB	68.5 Mfps		16K MAC			
GC728XP	A9 Single Core, 512MB RAM	line-rate	1G SFP:			100	(dynamic)	IPv4: 32	8 (WRR)	512
GC752X	8MB SPI + 256	140Gbps	1.720 μs 10G SFP+:	1 5 MD	104.2 М((shared)	384 ARP/128 NDP 256 VLANs	IPv6: 31		512
GC752XP	NAND FLASH	line-rate	1.510 µs	1.5 MB	104.2 Mfps		200 VLAINS			



Features and Benefits

Hardware 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, no software or server to setup; nothing. Just connect and go.
1000BASE-T Copper Ethernet PoE+ (802.3at) con- nections (GC728XP/GC752XP)	Connect multiple power demanding devices to your network with a single wire for power and connectivity. Support high-density VoIP, Surveillance and Wi-Fi AP deployments, scalable for future growth. Never face the risk of running out of PoE ports or PoE power budget with power budgets of 390W (GC728XP) and 505W (GC752XP).
1000BASE-X SFP ports	Two dedicated Gigabit SFP ports provide fiber uplinks without sacrificing any downlink copper Gigabit Ethernet port, and across long distances. Support for Fiber and Copper modules.
10GBASE-X SFP+ ports	Two dedicated 10-Gigabit SFP+ fiber ports provide flexibility to uplink to 10G-capable core or aggregation switches that support fiber links. Backward compatible to Gigabit fiber. Support copper or fiber modules.
Cloud, Power, PoE (GC728XP/GC752XP only), and Fan LEDs	Quickly confirm switch has power and is connected to the cloud/internet, fan is operating normally or not, and if max PoE budget has been reached.
USB Port	Quickly and conveniently upgrade or restore firmware, load or backup configuration files, or download system log files for troubleshooting.
Micro-USB Debug Port	Only for use when directed by customer support for troubleshooti
Low Acoustics	Temperature-based fan-speed control minimizes system acoustic noise in any environment as low as 28dB at 25°C (77°F) ambient.
Energy Efficient Ethernet (IEEE 802.3az)	Maximum power reduction for ongoing operation cost savings.
Rackmount or Desktop	Flexible deployment in standard 19" rack using the included rackmount kit or on desktop using included rubber feet.
Kensington Lock Slot	Prevent theft, removal, or tampering when used for desktop deployment.
Software Features	
Remote setup, management, and monitoring anywhere, anytime, from your mobile device, PC, Mac, or tablet	Locally or remotely setup, configure, manage, monitor or even trouble- shoot your network from anywhere, anytime. Check network status, view dashboards for network health and activity, power cycle PoE ports, etc, and update firmware remotely. No need to be on-site, open up ports to your network, or VPN into it.
Auto-join and Configure (Zero-Touch Provisioning)	Additional Insight Managed devices added to the network automatically inherit settings and configuration of the network.
Multi-site, Multi-network Single Pane-of-Glass View	View and configure multiple networks across multiple sites, all from one single app; NETGEAR Insight.
Comprehensive IPv6 Support for Management, ACLs 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, ACLs, MAC Authentication)	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 (802.1p, DSCP, Rate-limiting)	Advanced controls for optimized network performance and better delivery of mission-critical traffic such as voice and video.



Software Features (continued)	
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, H.323 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 clas- sifying traffic, and enabling correct egress queue configuration. Similarly, Auto-Video VLAN enables IGMP snooping to minimize broadcast streams.
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.
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 phone conversations to stay private and your surveillance video clips can be for- warded to their designated storage device without leakage or alteration.
DHCP Snooping	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.
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.
Private VLAN	Private VLANs help reduce broadcast with added security.
Port Trunking/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.
Loop Prevention and Auto-DoS Prevention	Detect and prevent (auto port shutdown) accidental network loops and protect against DoS attacks.
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.
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 mobile app or Insight Cloud Portal, all from the palm of your hand, anytime, anywhere!
Multiple Language Local GUI	Product documentation and local-only web user interfaces are translated, giving you the ability to select your preferred language ² .

² English, German, and Japanese are the current supported languages in the local-only web GUI. The Insight mobile app and Insight Cloud Portal support local languages per the device used (phone or computer browser).

NETGEAR[®] BUSINESS

Why Smart switches with optional remote/cloud management?

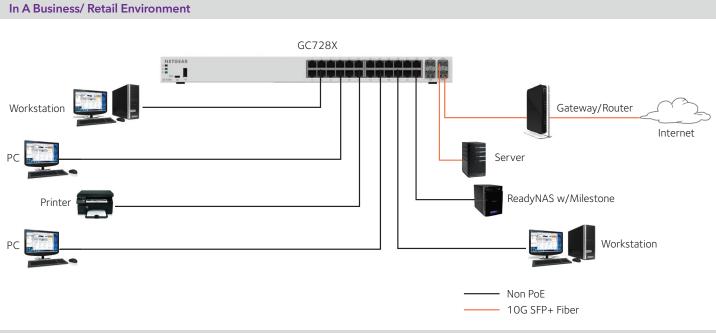
NETGEAR is revolutionizing unified, centralized network management with it's new line of Smart switches with optional remote/cloud management and Wireless Access Points, all managed from the palm of your hand, anytime, anywhere, on your phone or tablet using the NETGEAR Insight mobile app. Or, for a larger screen experience, from your PC, Mac, or tablet web browser using the Insight Cloud Portal.

- Ideal for SMBs, offices, retail stores, education, healthcare, owner-operated businesses, etc.
- IT expert or no networking experience at all: Smart switches with optional remote/cloud management let you focus on your business, not maintaining your network.
- Know immediately if and when your network is not running perfectly; not after you've already lost business or suffered significant down-time.
- Advanced L2+/L3 Lite network features such as IPv4/IPv6 management, VLANs, DiffServ QoS, LACP Link Aggregation, Spanning Tree, Static Routing, advanced per-port PoE controls and PoE scheduling will satisfy even the most advanced small business networks.
- Fundamentally change and simplify network usability for easier and smoother deployment of voice, video, and WLAN on the same converged platform.
- Industry-leading 5-year warranty on switches, 5-year Next-Business-Day (NBD) replacement, and 90-days free technical support** for peace-of-mind. Extended ProSUPPORT service plans available for purchase.

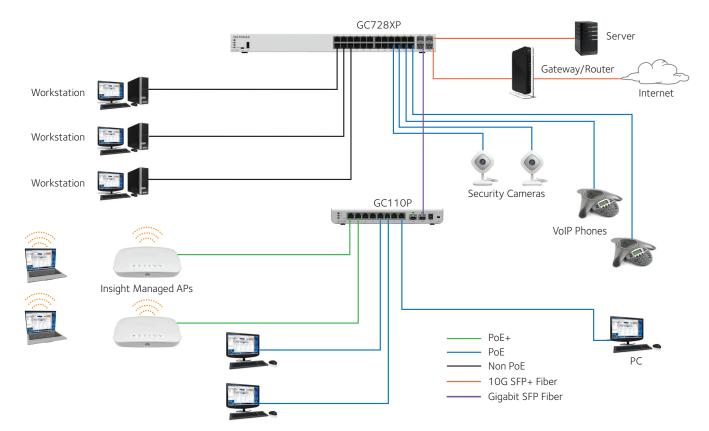
Within small and medium-sized organizations, there is growing adoption of PoE devices such as VoIP phones, IP security cameras, wireless access points, proximity sensors, LED lighting, door locks, and other IoT devices that require network switches capable of supporting dense PoE installations. Wireless access points and pan-tilt-zoom HD cameras using Wave 2 802.11ac Wi-Fi also require PoE+ power (802.3at), increasing the power demands on PoE switches. With a generous power budget of 390W (GC728XP) and 505W (GC752XP), the PoE versions are designed to meet the current and future needs of wireless converged networks.



Example Application

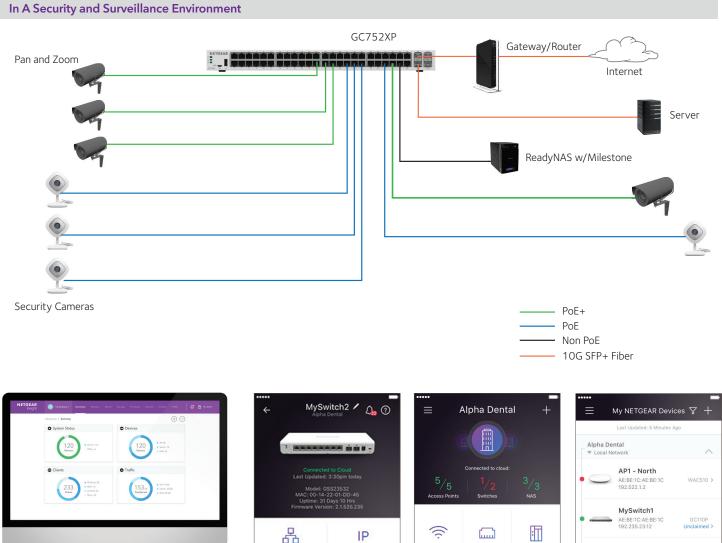


In a Small Office/Workgroup Environment (Aggregation/Core Switch)



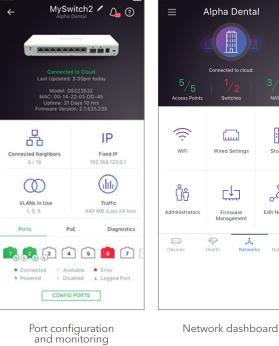


Example Application



Large screen access via Insight Cloud Portal





Wired Settings Storage Å r↓⊐ Edit Network Firmware Managemer ДØ ٨

MySwitch3 GS728TX 3 d Support AE:BE:1C:AE:BE 192.235.23.12 Cuppa Joe Coffee AP1 - North AE:BE:1C:AE:BE:1C 192.522.1.2 MySwitch2 GC110P > AE:BE:1C:AE:BE:1C 192.235.23.12

Single pane-of-glass view of multiple networks/locations



Technical Specifications	GC728X	GC728XP	GC752X	GC752XP		
Gigabit Ethernet RJ-45 Copper ports (10M/100M/1G) - 1000BASE-T	24	24	48	48		
PoE/PoE+ ports	N/A	24 PoE+ (390W PoE budget)	N/A	48 PoE+ (505W PoE budget)		
Gigabit SFP (fiber) ports (100M/1G) - 1000BASE-X	2 (dedicated)	2 (dedicated)	2 (dedicated)	2 (dedicated)		
10-Gigabit SFP+ (fiber) ports (1G/10G) - 10GBASE-X	2 (dedicated)	2 (dedicated)	2 (dedicated)	2 (dedicated)		
USB port (for config file upload/backup & firmware updates)	Yes	Yes	Yes	Yes		
Micro-USB port (for debugging only)	Yes	Yes	Yes	Yes		
Power Supply	Internal 100-240VAC ~ 50-60Hz, 1A Max	Internal 100-240VAC ~ 50-60Hz, 10A Max	Internal 100-240VAC ~ 50-60Hz, 1.5A Max	Internal 100-240VAC ~ 50-60Hz, 10A Max		
Kensington Lock		Yes (rear)				
LEDs						
System LEDs (per device)	Cloud/Internet Connection, Power, Fan Status	Cloud/Internet Connection, Power, PoE Max, Fan Status	Cloud/Internet Connection, Power, Fan Status	Cloud/Internet Connection, Power, PoE Max, Fan Status		
Ethernet (Copper) Port LEDs (per port)	Speed/Link/ Activity	Speed/Link/ Activity (left), PoE Power (right)	Speed/Link/ Activity	Speed/Link/ Activity (left), PoE Power (right)		
SFP/SFP+ (Fiber) Port LEDs (per port)	Speed/Link/ Activity	Speed/Link/ Activity	Speed/Link/ Activity	Speed/Link/ Activity		
Unified Network Management (Discovery, Setup	o, Monitoring, And	Management)				
Discovery, setup, monitoring and management	NETGEAR Insight PC, Mac, or tablet		ne or tablet; Insight	Cloud Portal from		
Remote/Cloud management			your hand using Insi owser using the Insig			
Centralized network configuration (policies)		oints, and Business-	olicies) across Insight class ReadyNAS Sto			
Device auto-join and configure (zero-touch provisioning)	Additional Insight inherit the networ		added to the networ	k automatically		
Multi-site, multi-network single pane-of-glass view		sites, locations, and p or Insight Cloud P	networks in a single ortal	view using the		
Multi-switch, multi-port concurrent configuration for ACLs, VLANs, QoS, PoE, etc		d policies on multip ng the Port Config V	le ports across multi _l Vizard	ole switches all at		
Performance Specification						
CPU	400 MHz Cortex-A9 Single Core, 512MB RAM, 8MB SPI + 256MB NAND FLASH					
Packet buffer memory (Dynamically shared across only used ports)	1.5 MB					
Forwarding modes	Store-and-forward					



Performance Specification	GC728X	GC728XP	GC752X	GC752XP
Bandwidth (non-blocking, full duplex)	92Gbps	92Gbps	140Gbps)	140Gbps
Priority queues	8	8	8	8
Priority queuing	Wei	ghted Round Robin	(WRR) and Strict Price	ority
MAC Address database size (48-bit MAC addresses)	16K (dynamic)	16K (dynamic)	16K (dynamic)	16K (dynamic)
Bandwidth (non-blocking, full duplex)	92Gbps	92Gbps	140Gbps)	140Gbps
Priority queues	92Gbps	92Gbps	140Gbps)	140Gbps
Priority queuing	92Gbps	92Gbps	140Gbps)	140Gbps
MAC Address database size (48-bit MAC addresses)	92Gbps	92Gbps	140Gbps)	140Gbps
Multicast Gro 512 ups		5	12	
Number of IPv4 static routes		3	2	
Number of IPv6 static routes		3	1	
Number of ARP/NDP cache entries		384 ARP /	128 NDP	
Number of VLANs		25	56	
Number of DHCP snooping bindings		8	К	
Access Control Lists (ACLs)		100 shared for MA	C, IP and IPv6 ACLs	
Packet forwarding rate (64 byte packet size) (Mfps or Mpps)	68.5	68.5	104.2	104.2
1G Copper latency (µsec) (64-byte; 1518-byte; 9216-byte frames)		64-byte: 3 1518-bye: 9216-byte:		
1G SFP Fiber latency (µsec) (64-byte; 1518-byte; 9216-byte frames)		64-byte: 1 1518-byte: 9216-byte:	1.740 µsec	
1G SFP Fiber latency (µsec) (64-byte; 1518-byte; 9216-byte frames)		•	.510 µsec 1.520 µsec 1.510 µsec	
Jumbo frame support		Up to 9,216	packet size	
Acoustic noise level @ 25° C (dBA) (ANSI-S10.12)	28dBA	39dBA	29dBA	33dBA
Mean Time Between Failures (MTBF) @ 25° C	1,874,356 hrs (214 yrs)	2629,962 hrs (72 yrs	1,360,115 hrs (155 yrs)	455,682 hrs (50 yrs)
POE Configuration				
Number of PoE (802.3af) / PoE+ (802.3at) ports	N/A	24 PoE+	N/A	48 PoE+
Total PoE power budget (watts)	N/A	390 W	N/A	505 W
Advanced per-port PoE controls (enable/disable/power limit)	N/A	Yes	N/A	Yes
Advanced per-port PoE scheduling/timers	N/A	Yes	N/A	Yes
IEEE 802.3ad - LAGs (LACP)		Ye		



L2 Services - VLANS	GC728X	GC728XP	GC752X	GC752XP
	GC/20A	GC728AP Yes		GC/52AP
IEEE 802.1Q VLAN Tagging IP-based VLANs				
MAC-based VLANs		Yes Yes		
Auto-VolP VLAN / Auto-Voice VLAN	Yes, based on (Tes OUI bytes (default data phone source N	abase and user-b	ased OUIs) in the
Auto-VolP	Yes, based on p	rotocols (SIP, H.323 and queu	d SCCP). Prioritze	s traffic to a highe
Voice VLAN		ither VLAN ID or 802.1 e connecting VoIP pho	p priority, packet	
Auto-Video VLAN		Yes	;	
Private VLAN		Yes	5	
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	5	
IEEE 802.1s Multiple Spanning Tree Protocol		Yes	;	
Layer 2 DHCP Relay		Yes	;	
L2 Services - Multicast Filtering				
IGMP snooping (v1, v2 and v3)		Yes	5	
MLD snooping support (v1 and v2)		Yes	;	
IGMP snooping queries		Yes	5	
Block unknown multicast		Yes	;	
Multicast VLAN Registration (MVR)		No		
Multicast groups		512	2	
L3 Services - DHCP				
DHCP client		Yes	; ;	
DHCP snooping		Yes	5	
Number of DHCP snooping bindings		8K		
L3 Services - Routing				
IPv4 static routes		32		
IPv6 static routes		31		
VLAN routing		Yes	;	
Host ARP table / NDP cache (number of entries)		384 ARP / 1	28 NDP	
ICMP Router Discovery Protocol (IRDP)		Yes	6	
Number of IP VLAN interfaces (routed VLANs)		15		



Link Aggregation	GC728X	GC728XP	GC752X	GC752XP
IEEE 802.3ad - LAGs (LACP)		Yes		
Manual Static LAG		Yes		
# of Static or LACP LAGs # of members in each LAG		24 LAGs with max 8 mer	nbers in each LAG	
Network Monitoring and Discovery Services				
802.1ab LLDP		Yes		
LLDP-MED		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/UPD-based ACLs		Yes		
MAC lockdown		Yes		
MAC lockdown by the number of MACs		Yes		
Control MAC # Dynamic learned entries (per port)		4096		
Control MAC # static entries (per port)		48		
IEEE 802.1x RADIUS port access authentication/type		Yes (MD5, EA	P, PEAP)	
Port-based security by locked MAC addresses		Yes		
Dynamic ARP inspection		No		
Broadcast, multicast, unknown unicast storm control		Yes		
DoS attacks prevention		Yes		
Protected ports		Yes		
Quality of Service (QoS)				
Port-based rate limiting		Yes, egre	SS	
Port-based QoS		Yes		
Support for IPv6 fields		Yes		
DiffServ QoS	Yes, ingre	SS		
IEEE 802.1p COS		Yes		
Destination MAC and IP		Yes		



Quality of Service (QoS)	GC728X	GC728XP	GC752X	GC752XP		
IPv4 and v6 DSCP		Ye	S			
IPv4 and IPv6 ToS		N	0			
TCP/UDP-based		Ye	S			
Weighted Round Robin (WRR)		Ye	S			
Strict priority queue technology		Ye	S			
Auto-VoIP VLAN / Auto-Voice VLAN	Yes, based on (OUI bytes (default dat phone source		sed OUIs) in the		
Auto-VolP	Yes	s, based on protocols Prioritzes traffic to		CP).		
Voice VLAN		er VLAN ID or 802.1 connecting VoIP pho				
Auto-Video VLAN		Ye	S			
Other Features						
Advanced per-port PoE controls (enable/disable/power limit)	N/A	Yes	N/A	Yes		
Advanced per-port PoE scheduling	N/A	Yes	N/A	Yes		
Loop detection & prevention	Yes (both)	Yes (both)	Yes (both)	Yes (both)		
DNS Client	Yes	Yes	Yes	Yes		
Option to enable/disable BPDU flooding when STP is disabled	Yes	Yes	Yes	Yes		
Option to enable/disable the flooding of EAPOL when 802.1x is disabled	Yes	Yes	Yes	Yes		
IEEE Network Protocols						
 IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX IEEE 802.3ae 10-Gigabit Ethernet Over Fiber (10GBASE-SR, 10GBASE-LR, 10GBASE-LRM, 10GBASE-ER, 10GBASE-LX4) IEEE 802.3af PoE (GC728XP/GC752XP only) IEEE 802.3at PoE+ (GC728XP/GC752XP only) IEEE 802.3ad Trunking (LACP) IEEE 802.3az Energy Efficient Ethernet (EEE) 	 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		Ye	S			
Insight mobile app & Insight Cloud Portal management		Ye				
uPnP Discovery		Ye				
Bonjour Discovery		Ye	s			
Networking monitoring		Ye	s			
Data/performance logs		Ye	S			
Centralized network configuration/policies (network-centric management)		Ye	2S			



Management, Monitoring & Troubleshooting	GC728X	GC728XP	GC752X	GC752XP
Device auto-join and configure (zero-touch provisioning)		Ye	S	
Multi-site, multi-network single pane-of-glass view		Ye	S	
Multi-switch, multi-port concurrent configuration		Ye	S	
Network/global password (for all Insight Managed devices on a network)	Yes (per network/s	subnet via NETGEAR Port		and Insight Cloud
Password management		Ye	s	
IP Access List		Ye	S	
Configurable management VLAN		Ye	S	
Admin access control via RADIUS and TACACS+		Ye	S	
IPv6 management		Ye	s	
SNTP client over UDP port 123		Ye	S	
Firmware update direct from Cloud (via mobile device or Insight Cloud Portal)		Ye	S	
SNMP v1/v2c		Ye	S	
SNMP v3 with multiple IP addresses		Ye	s	
RMON group 1,2,3,9		Ye	S	
Port mirroring		Ye	S	
Many-to-one port mirroring		Ye	S	
Cable test utility		Ye	S	
Ping and tracerout client		Ye	S	
Local-only web browser-based management GUI with multiple language support2		Ye	S	
SSL/HTTPS Web-based access (version)		Yes (v3)	
TLS Web-based access (version)		Yes (v	1.0)	
TFTP/HTTP firmware upload/download		Ye	S	
Dual software (firmware) image		Ye	S	
Memory and flash log		Ye	S	
Syslog (RFC 3164)		Ye	S	
USB port for firmware updates, configuration set- tings upload/backup, and system log file down- loads		Ye	S	
Micro-USB port (for debugging only)		Ye	S	
Power Consumption				
Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts)	18.5 W	47.1 W	43.9 W	118.6 W
Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts)	N/A	437.1 W	N/A	623.6 W
Min power (link-down standby) (Watts)	13.7 W	25.5 W	25.3 W	39.4 W
Heat Dissipation (min w/o PoE and max with full PoE) (BTU/hr)	Min: 46.58 BTU/hr Max: 62.95 BTU/hr	Min: 86.94 BTU/hr Max: 1491.45 BTU/hr	Min: 84.43 BTU/hr Max: 149.72 BTU/hr	Min: 134.58 BTU/hr Max: 2127.64 BTU/hr



Power Consumption	GC728X	GC728XP	GC752X	GC752XP			
Energy Efficient Ethernet (EEE) IEEE 802.3az		All models - Yes, d	eactivated by default				
Auto power down		All models - Yes, d	eactivated by default				
Fan(s) (temperature- and load-based speed control)	1	2	1	3			
Physical Specifications							
Dimensions (W x D x H)		4 x 44 mm .8 x 1.7 in)		440 x 320 x 44 mm (17.3 x 12.6 x 1.7 in			
Weight	2.81 kg (6.19 lb)	3.79 kg (8.36 lb)	3.16 kg (6.97 lb)	4.79 kg (10.56 lb)			
Mounting options		Rackmount, des	ktop (kits included)				
Environmental Specifications							
Operating							
Operating Temperature		-0° to 50°C	(32° to 122°F)				
Humidity	90% rr	naximum relative hu	midity (RH), non-cone	densing			
Altitude		10,000 ft (3,0	00 m) maximum				
Storage							
Storage Temperature		-20° to 70°C	C (– 4° to 158°F)				
Humidity	95% m	aximum relative hu	midity (RH), non-cone	densing			
Altitude		10,000 ft (3,0	00 m) maximum				
Electromagnetic Emissions and Immunity Cert	ifications						
			Commercial				
			+AC:2013, Class A				
	EN55024:2010+A1:2015						
	EN61000-3-2:2014, Class A						
			0-3-3:2013				
Certifications							
	RCM, AS/NZS CISPR 32:2015 CLASS A 47 CFR FCC Part 15, Subpart B, Class A						
			6 Issue 6, Class A				
			3438, Class A				
			132 / KN35				
	CCC GB/T 9254-2008						
Safety Certifications							
		CB Mark	Commercial				
	EN 60950-1			11 + A2:2013			
	EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 UL 60950-1, 2nd, 2014 and CAN/CSA C22.2 No. 60950-1-07, 2nd, 2014						
) + Am 1:2009 + Am 2				
Certifications			S 60950.1:2015				
			NS14336-1				
			60950-1				
		Reel					

CCC GB4943.1-2011



Hardware Limited Warranty 5 years	Warranty and Support	GC728X	GC728XP	GC752X	GC752XP	
Next-Business-Day (NBD) Replacement5 years5 years5 years5 yearsTechnical support (online, phone)90 days free from date of purchase*PNSUPPORT OnCall 24x7 Service Packs**PMB0311 (1 yr) PMB0311 (3 yrs)PMB0312 (1 yr) PMB0323 (3 yrs)Potage ContentsNETGEAR Smart 28-Port of 52-Port Gigabit Ethernet Switch with 2 SFP and 3 SFP+ 10G Fiber PortsAll modelsNETGEAR Smart 28-Port or 52-Port Gigabit Ethernet Switch with 2 SFP and 3 SFP+ 10G Fiber PortsAll modelsCategory 5e flat Ethernet cable (after 41/1/2019) Rackmount kit Rubber footpads for tabletop installation Installation guideCr228X-100NASNorth America and Latin AmericaGC728X-100ASStorpe and United KingdomGC728X-100NASNorth America and Latin AmericaGC728X-100NASStorpe and United KingdomGC728X-100NASNorth America and Latin AmericaGC728X-100NASNorth America and Latin AmericaGC752X-100NASNorth America and Latin AmericaGC752X-100PRSChina <td></td> <td></td> <td></td> <td></td> <td></td>						
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² English, German, and Japanese are the current supported languages in the local-only web GUI. The Insight mobile app and Insight Cloud Portal support local languages per the device used (phone or computer browser).

*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 using the Insight mobile app or Insight Cloud portal within 90 days of purchase; see https://www.netgear.com/about/warranty for details. Intended for indoor use only.

NETGEAR[®] B U S I N E S S

Optional Modules and Accessories	
AGM731F-10000S	SFP Transceiver 1000BASE-SX (Short range, multimode)
AGM732F-10000S	SFP Transceiver 1000BASE-LX (Long range, single mode)
AGM734-10000S	SFP Transceiver 1000BASE-T Copper RJ45 GBIC
AXM761-10000S	SFP+ Transceiver 10GBASE-SR (Short range, multimode)
AXM762-10000S	SFP+ Transceiver 10GBASE-LR (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 (SFP+ Copper RJ-45 GBIC)
AXC761-10000S	SFP+ DAC CABLE (1m)
AXC763-10000S	SFP+ DAC CABLE (3m)
Extended Support Contracts	
GC728X/GC728XP Models:	
PMB0311-10000S	1-Year OnCall 24x7 Support Plan**
PMB0331-10000S	3-Year OnCall 24x7 Support Plan**
PMB0351-10000S	5-Year OnCall 24x7 Support Plan**
GC752X/GC752XP Models:	
PMB0312-10000S	1-Year OnCall 24x7 Support Plan**
PMB0332-10000S	3-Year OnCall 24x7 Support Plan**
PMB0352-10000S	5-Year OnCall 24x7 Support Plan**

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**The NETGEAR OnCall 24x7 contract provides unlimited phone, chat and email technical support for your networking product.

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