



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 Managed Pro switches with optional remote/cloud management.

The Smart Managed Pro 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 Managed Pro switches with optional remote/cloud management fundamentally change the way you think of networks and IT. Using the NETGEAR Insight app with select Smart Managed Pro 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 Managed Pro Gigabit Ethernet/10G SFP+ Switches with optional Remote Management

Network-centric configuration and management

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

Fully-integrated cloud-manageable devices

NETGEAR Smart Managed Pro switches with optional remote/cloud management are fully-integrated, cloud-manageable, plug-and-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 Managed Pro 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 Managed Pro 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

GC728X: 28-Port Gigabit Ethernet Smart Managed Pro 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

NETGEAR



GC728XP: 28-Port Gigabit Ethernet PoE+ Smart Managed Pro 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 EthernetSmart Managed Pro 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 Managed Pro 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 replace- ment.
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 connec- tions.
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).



Why Smart Managed Pro switches with optional remote/cloud management?

NETGEAR is revolutionizing unified, centralized network management with it's new line of Smart Managed Pro 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 Managed Pro 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



Port configuration and monitoring

Network dashboard

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	, 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)		Access Points, and	olicies) across Insight Business-class Read		
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 multipl ng the Port Config V	e 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	ł			



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	256				
Number of DHCP snooping bindings		8	К		
Access Control Lists (ACLs)	100 shared for MAC, 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)		1518-bye:	3.200 µsec 3.160 µsec 3.140 µsec		
1G SFP Fiber latency (µsec) (64-byte; 1518-byte; 9216-byte frames)			.720 µsec 1.740 µsec 1.740 µsec		
1G SFP Fiber latency (μsec) (64-byte; 1518-byte; 9216-byte frames)		1518-byte:	.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	es		



L2 Services - VLING GC/26X GC/26X <thg 27x<="" th=""> <thg 27x<="" th=""> <t< th=""><th>L2 Services - VLANS</th><th>GC728X</th><th>GC728XP</th><th>GC752X</th><th>GC752XP</th></t<></thg></thg>	L2 Services - VLANS	GC728X	GC728XP	GC752X	GC752XP
No. Yes MAC-based VLANs Yes Auto-VoiP VLAN / Auto-Voice VLAN Yes, based on DUI bytes (default database and user-based OUIs) in the phone source MAC address Auto-VoiP VLAN / Auto-Voice VLAN Yes, based on protocols (SIP, H.323 and SCCP). Prioritzes traffic to a highe queue. Voice VLAN Yes, based on either VLAN ID or 80.21 p priority, packets are passed ontot the connecting VoiP phone using LLDP.MED. Voice VLAN Yes. Auto-Video VLAN Yes. Private VLAN Yes. Vato-Video VLAN Yes. Private VLAN Yes. IEEE 802.3 kultidus panning Tree Protocol Yes. IEEE 802.1 Wapid Spanning Tree Protocol Yes. IEEE 802.1 Wapid Spanning Tree Protocol Yes. IEEE 802.1 Wultidus Filtering Yes. IEEE 802.2 Multicast Filtering <t< td=""><td></td><td>GC/20X</td><td></td><td></td><td>GC/52AP</td></t<>		GC/20X			GC/52AP
MAC-based VLANsYesAuto-VolP VLAN / Auto-Voice VLANYes, based on UI bytes (default database and user-based OUIs) in the phone source MAC addressAuto-VolPYes, based on protocol (SIP, H.232 and SCCP). Prioritzes traffic to a high queue.Voice VLANYes, based on either VLANI or 802.1p priority, packets are passed on the control of VLANAuto-Video VLANYesAuto-Video VLANYesPrivate VLANYesEXE Services - AvailabilityYesErect Sol.2 and LAGs (LACP)YesBroadcast, multicast, unknown unicast storm controlYesBette 802.3 and - LAGs (LACP)YesIEEE 802.1 bs panning Tree ProtocolYesIEEE 802.1 bs panning Tree ProtocolYesIEEE 802.1 shultipel Spanning Tree ProtocolYesIEEE 802.1 shultipel Spanning Tree ProtocolYesIGMP snooping queriesYesIGMP snooping queriesYesIGMP snooping queriesYesIGMP snooping queriesYesIGMP snooping queriesYesIGMP snooping queriesYesIDHCP clientYesIDHCP dientYesIDHCP snooping bindingsAstIDHCP snooping bindingsAstIDHCP snooping bindingsAstIPHY static routes31IVAN toxits routes34 ARP table / NDP cache (number of entries)INStatic routes384 ARP table / NDP cache (number of entries)IPHY static routes384 ARP table / NDP cache (number of entries)IPHY static routes344 RPI	00 0				
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Auto-VolP Yes, based on protocols (SIP, H.323 and SC/CP), Prioritzes traffic to a highe queue. Voice VLAN Yes, based on either VLAN ID or 802. 1p priority, packets are passed ont the constrol VOIN Auto-Video VLAN Yes Private VLAN Yes Private VLAN Yes Private VLAN Yes Broadcast, multicast, unknown unicast storm control Yes Broadcast, multicast, unknown unicast storm control Yes IEEE 802.3a (- LAGS (LACP) Yes IEEE 802.3a (- LAGS (LACP) Yes IEEE 802.1b Spanning Tree Protocol Yes IEEE 802.1b Spanning Tree Protocol Yes IEEE 802.1b Spanning Tree Protocol Yes Layer Z DHCP Relay Yes Layer Z DHCP Relay Yes IGMP snooping queries Yes Multicast groups State IGMP snooping queries Yes		Yes, based on (OUI bytes (default dat	abase and user-b	ased OUIs) in the
Autovolit queue, queue, 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 Private VLAN Yes Descrites - Availability Yes Broadcast, multicast, unknown unicast storm Yes Groadcast, multicast, unknown unicast storm Yes IEEE 802.3ad - LAGs (LACP) Yes IEEE 802.3ad - LAGs (LACP) Yes IEEE 802.1w Rapid Spanning Tree Protocol Yes IEEE 802.1w Rapid Spanning Tree Protocol Yes IEEE 802.1w Rapid Spanning Tree Protocol Yes Lager 2 DHCP Relay Yes IEEE 802.1s Multiple Spanning Tree Protocol Yes IGMP snooping (v1, v2 and v3) Yes IGMP snooping support (v1 and v2) Yes IGMP snooping queries Yes Block unknown multicast Yes Multicast groups Stat Multicast groups Stat DHCP Cleint Yes DHCP Snooping bindings Ag May Yes Multicat routes 32 IPV4 static routes 32 IPV4 static routes 31 IV4 static routes 344ARP t128 NDP			•		
Notice YDANYesAuto-Video VLANYesPrivate VLANYesI 2 Services - AvailabilityYesBroadcast, multicast, unknown unicast stormYesBreadcast, multicast, unknown unicast stormYesIEEE 802.3sd - LAGs (LACP)YesIEEE 802.3sd (Juld pulse and flow control)YesIEEE 802.1b Spanning Tree ProtocolYesIEEE 802.1b Spanning Tree ProtocolYesIEEE 802.1s Multiple Spanning Tree ProtocolYesIEEE 802.1s Multiple Spanning Tree ProtocolYesIZ Services - Multicast FilteringYesIGMP snooping (v1, v2 and v3)YesIGMP snooping queriesYesIGMP snooping queriesYesIdox structuresYesIdox structuresYes<	Auto-VoIP		quei	le.	-
Private VLANYesL2 Services - AvailabilityYesBroadcast, multicast, unknown unicast stormYesEEEE 802.3ad - LAGs (LACP)YesIEEE 802.3ad - LAGs (LACP)YesIEEE 802.3ad (full duplex and flow control)YesIEEE 802.1b Spanning Tree ProtocolYesIEEE 802.1b Multiple Spanning Tree ProtocolYesIEEE 802.1s Multiple Spanning Tree ProtocolYesLayer 2 DHCP RelayYesIGMP snooping (v1, v2 and v3)YesIGMP snooping queriesYesBlock unknown multicastYesIGMP snooping queriesYesBlock unknown multicastYesMulticast VLAN Registration (MVR)NoMulticast groupsS12DHCP cleintYesDHCP snooping bindings8kDHCP snooping bindings8kDHCP snooping bindings32If Static routes31VLAN routingYesIf Static routes384 ARP / 128 NDPIf CMP Router Discovery Protocol (IRDP)Yes	Voice VLAN				
L2 Services - Availability Broadcast, multicast, unknown unicast storm control Yes IEEE 802.3ad - LAGs (LACP) Yes IEEE 802.3ad - LAGs (LACP) Yes IEEE 802.3a (full duplex and flow control) Yes IEEE 802.10 Spanning Tree Protocol Yes IEEE 802.11 wapid Spanning Tree Protocol Yes IEEE 802.11 wultiple Spanning Tree Protocol Yes Layer 2 DHCP Relay Yes Layer 2 DHCP Relay Yes IGMP snooping (v1, v2 and v3) Yes MLD snooping queries Yes Block unknown multicast Yes Block unknown multicast Yes Multicast YUAN Registration (MVR) No Multicast groups 512 DHCP client Yes DHCP client Yes DHCP snooping bindings 8K L3 Services - Autting 32 IPV4 static routes 32 IPV4 static routes 34 VLAN routing Yes IVAN routing Yes IVAN routing Yes IVAN routing Yes	Auto-Video VLAN		Ye	5	
Broadcast, multicast, unknown unicast storm controlYesIEEE 802.3ad - LAGs (LACP)YesIEEE 802.3a (full duplex and flow control)YesIEEE 802.1x Ganning Tree ProtocolYesIEEE 802.1w Rapid Spanning Tree ProtocolYesIEEE 802.1w Rapid Spanning Tree ProtocolYesIEEE 802.1w Matpid Spanning Tree ProtocolYesIEEE 802.1w Rapid Spanning Tree ProtocolYesIEEE 802.1w Rapid Spanning Tree ProtocolYesIEEE 802.1w Rapid Spanning Tree ProtocolYesIAU Starting Tree ProtocolYesIAU Starting Tree ProtocolYesIAU Starting Support (v1 and v2)YesIGMP snooping queriesYesBlock unknown multicastYesBlock unknown multicastYesMulticast VLAN Registration (MVR)NoMulticast groupsS12DHCP clientYesDHCP snooping bindingsAsIAU Startic routes32IPV4 static routes32IPV4 static routes31VLAN routingYesHot ARP table / NDP cache (number of entries)384 ARP / 128 NDPICMP Router Discovery Protocol (IRDP)Yes	Private VLAN		Ye	3	
controlresIEEE 802.3ad - LAGs (LACP)YesIEEE 802.3a (full duplex and flow control)YesIEEE 802.1b Spanning Tree ProtocolYesIEEE 802.1w Rapid Spanning Tree ProtocolYesIEEE 802.1s Multiple Spanning Tree ProtocolYesLayer 2 DHCP RelayYesLayer 2 DHCP RelayYesIGMP snooping (v1, v2 and v3)YesMLD snooping queriesYesBlock unknown multicastYesMulticast YLAN Registration (MVR)NoMulticast groups512DHCP clientYesDHCP ClientYesIDCP Snooping bindings8KILS Services - Routing32IVA static routes32IVA static routes31VLAN routingYesIPA static routes384 ARP 128 NDPICMP Router Discovery Protocol (IRDP)Yes	L2 Services - Availability				
IEEE 802.3x (full duplex and flow control)YesIEEE 802.1D Spanning Tree ProtocolYesIEEE 802.1s Multiple Spanning Tree ProtocolYesLayer 2 DHCP RelayYesLayer 2 DHCP RelayYesIGMP snooping (v1, v2 and v3)YesMLD snooping queriesYesBlock unknown multicastYesBlock unknown multicastYesMutticast YLAN Registration (MVR)NoMulticast groups512DHCP clientYesDHCP snoopingYesNumber of DHCP snooping bindings8KDHCP snooping Sing Sing Sing Sing Sing Sing Sing S			Yes	5	
IEEE 802.10 Spanning Tree ProtocolYesIEEE 802.1x Rapid Spanning Tree ProtocolYesIEEE 802.1s Multiple Spanning Tree ProtocolYesLayer 2 DHCP RelayYesIS Services - Multicast FilteringYesIGMP snooping (v1, v2 and v3)YesMLD snooping support (v1 and v2)YesBlock unknown multicastYesBlock unknown multicastYesMutticast VLAN Registration (MVR)NoMulticast groups512DHCP clientYesDHCP snooping bindingsKesNumber of DHCP snooping bindings8KIS Services - Routing32IPV4 static routes32IPV4 static routes31VLAN routingYesHost ARP table / NDP cache (number of entries)384 ARP/ 128 NDPICMP Router Discovery Protocol (IRDP)Yes	IEEE 802.3ad - LAGs (LACP)		Yes	5	
IEEE 802.1 w Rapid Spanning Tree ProtocolYesIEEE 802.1 s Multiple Spanning Tree ProtocolYesLayer 2 DHCP RelayYes L Services - Multicast Filtering YesIGMP snooping (v1, v2 and v3)YesMLD snooping support (v1 and v2)YesIGMP snooping queriesYesBlock unknown multicastYesMulticast VLAN Registration (MVR)NoMulticast groups512DHCP clientYesDHCP clientYesDHCP snooping bindings8KL Services - Routing32If Services - Routing31VLAN routingYesHord static routes384 ARP 128 NDPICMP Router Discovery Protocol (IRDP)Yes	IEEE 802.3x (full duplex and flow control)		Ye	5	
IEEE 802.1s Multiple Spanning Tree Protocol Yes Layer 2 DHCP Relay Yes L2 Services - Multicast Filtering Image: Services - Multicast Filtering 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) No Multicast groups 512 L3 Services - DHCP Yes DHCP client Yes DHCP snooping bindings 8K Number of DHCP snooping bindings 8K L3 Services - Routing 32 IPv4 static routes 31 VLAN routing Yes Host ARP table / NDP cache (number of entries) 384 ARP / 128 NDP ICMP Router Discovery Protocol (IRDP) Yes	IEEE 802.1D Spanning Tree Protocol		Ye	5	
Layer 2 DHCP RelayYesL2 Services - Multicast FilteringYesIGMP snooping (v1, v2 and v3)YesMLD snooping support (v1 and v2)YesIGMP snooping queriesYesBlock unknown multicastYesMulticast VLAN Registration (MVR)NoMulticast groups512DHCP clientYesDHCP clientYesDHCP snooping bindings8KDHCP snoopingYesNumber of DHCP snooping bindings32IFV4 static routes32IPV6 static routes31VLAN routingYesHost ARP table / NDP cache (number of entries)384 ARP / 128 NDPICMP Router Discovery Protocol (IRDP)Yes	IEEE 802.1w Rapid Spanning Tree Protocol		Ye	5	
L2 Services - Multicast Filtering IGMP snooping (v1, v2 and v3) Yes MLD snooping support (v1 and v2) Yes IGMP snooping queries Yes Block unknown multicast Yes Block unknown multicast Yes Multicast VLAN Registration (MVR) No Multicast groups 512 L3 Services - DHCP Yes DHCP client Yes DHCP snooping bindings 8K L3 Services - Routing Yes IPv4 static routes 32 IPv6 static routes 31 VLAN routing Yes Host ARP table / NDP cache (number of entries) 384 ARP / 128 NDP ICMP Router Discovery Protocol (IRDP) Yes	IEEE 802.1s Multiple Spanning Tree Protocol		Yes	5	
IGMP snooping (v1, v2 and v3)YesMLD snooping support (v1 and v2)YesIGMP snooping queriesYesBlock unknown multicastYesBlock unknown multicastNoMulticast VLAN Registration (MVR)NoMulticast groups512DHCP clientDHCP snooping bindingsYesNumber of DHCP snooping bindings8KIPV4 static routes1PV4 static routes32IPV6 static routes31VLAN routingYesHost ARP table / NDP cache (number of entries)384 ARP / 128 NDPICMP Router Discovery Protocol (IRDP)Yes	Layer 2 DHCP Relay		Yes	3	
MLD snooping support (v1 and v2)YesIGMP snooping queriesYesBlock unknown multicastYesMulticast VLAN Registration (MVR)NoMulticast groups512 L3 Services - DHCP YesDHCP clientYesDHCP snoopingYesDHCP snooping bindings8K L3 Services - Routing 32IPV4 static routes31VLAN routingYesHost ARP table / NDP cache (number of entries)384 ARP / 128 NDPICMP Router Discovery Protocol (IRDP)Yes	L2 Services - Multicast Filtering				
IGMP snooping queriesYesBlock unknown multicastYesMulticast VLAN Registration (MVR)NoMulticast groups512 L3 Services - DHCP YesDHCP clientYesDHCP snoopingYesNumber of DHCP snooping bindings8K L3 Services - Routing 32IPV4 static routes31VLAN routingYesHots ARP table / NDP cache (number of entries)384 ARP / 128 NDPICMP Router Discovery Protocol (IRDP)Yes	IGMP snooping (v1, v2 and v3)		Ye	6	
Block unknown multicast Yes Multicast VLAN Registration (MVR) No Multicast groups 512 L3 Services - DHCP Ves DHCP client Yes DHCP snooping Yes Number of DHCP snooping bindings 8K L3 Services - Routing 32 IPv4 static routes 31 VLAN routing Yes Host ARP table / NDP cache (number of entries) 384 ARP / 128 NDP ICMP Router Discovery Protocol (IRDP) Yes	MLD snooping support (v1 and v2)		Ye	6	
Multicast VLAN Registration (MVR)NoMulticast groups512Auticast groups512 L3 Services - DHCP YesDHCP snoopingYesDHCP snooping bindings8K L3 Services - Routing 32IPv4 static routes32IPv4 static routes31VLAN routingYesHost ARP table / NDP cache (number of entries)384 ARP / 128 NDPICMP Router Discovery Protocol (IRDP)Yes	IGMP snooping queries		Yes	6	
Multicast groups512L3 Services - DHCPYesDHCP clientYesDHCP snoopingYesNumber of DHCP snooping bindings8KL3 Services - Routing32IPv4 static routes32IPv4 static routes31VLAN routingYesHost ARP table / NDP cache (number of entries)384 ARP / 128 NDPICMP Router Discovery Protocol (IRDP)Yes	Block unknown multicast		Ye	6	
L3 Services - DHCPDHCP clientYesDHCP snoopingYesNumber of DHCP snooping bindings8KL3 Services - Routing32IPv4 static routes31IPv6 static routes31VLAN routingYesHost ARP table / NDP cache (number of entries)384 ARP / 128 NDPICMP Router Discovery Protocol (IRDP)Yes	Multicast VLAN Registration (MVR)		No)	
DHCP clientYesDHCP snoopingYesNumber of DHCP snooping bindings8KIPv4 static routesIPv4 static routes32IPv6 static routes31VLAN routingYesHost ARP table / NDP cache (number of entries)384 AFP 128 NDPICMP Router Discovery Protocol (IRDP)Yes	Multicast groups		512	2	
DHCP snoopingYesNumber of DHCP snooping bindings8KL3 Services - Routing32IPv4 static routes32IPv6 static routes31VLAN routingYesHost ARP table / NDP cache (number of entries)384 ARP / 128 NDPICMP Router Discovery Protocol (IRDP)Yes	L3 Services - DHCP				
Number of DHCP snooping bindings8KL3 Services - Routing32IPv4 static routes32IPv6 static routes31VLAN routingYesHost ARP table / NDP cache (number of entries)384 ARP / 128 NDPICMP Router Discovery Protocol (IRDP)Yes	DHCP client		Ye	5	
L3 Services - Routing 32 IPv4 static routes 32 IPv6 static routes 31 VLAN routing Yes Host ARP table / NDP cache (number of entries) 384 ARP / 128 NDP ICMP Router Discovery Protocol (IRDP) Yes	DHCP snooping		Yes	6	
IPv4 static routes32IPv6 static routes31VLAN routingYesHost ARP table / NDP cache (number of entries)384 ARP / 128 NDPICMP Router Discovery Protocol (IRDP)Yes	Number of DHCP snooping bindings		8K		
IPv6 static routes31VLAN routingYesHost ARP table / NDP cache (number of entries)384 ARP / 128 NDPICMP Router Discovery Protocol (IRDP)Yes	L3 Services - Routing				
VLAN routingYesHost ARP table / NDP cache (number of entries)384 ARP / 128 NDPICMP Router Discovery Protocol (IRDP)Yes	IPv4 static routes		32		
Host ARP table / NDP cache (number of entries) 384 ARP / 128 NDP ICMP Router Discovery Protocol (IRDP) Yes	IPv6 static routes		31		
ICMP Router Discovery Protocol (IRDP) Yes	VLAN routing		Ye	5	
	Host ARP table / NDP cache (number of entries)		384 ARP /	128 NDP	
Number of IP VLAN interfaces (routed VLANs) 15	ICMP Router Discovery Protocol (IRDP)		Ye	5	
	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 me	mbers in each LA	G	
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	ò		
Control MAC # static entries (per port)		48			
IEEE 802.1x RADIUS port access authentication/type		Yes (MD5, EA	AP, 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, egr	ess		
Port-based QoS		Yes			
Support for IPv6 fields		Yes			
DiffServ QoS		Yes, ingr	ess		
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 C	OUI bytes (default da phone source		sed OUIs) in the		
Auto-VolP	Yes, based on protocols (SIP, H.323 and SCCP). Prioritzes traffic to a higher queue.					
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	S			
uPnP Discovery		Ye	2S			
Bonjour Discovery		Ye	S			
Networking monitoring		Ye	S			
Data/performance logs		Ye	s			
Centralized network configuration/policies (network-centric management)		Ye	S			



Management, Monitoring & Troubleshooting GC728X GC728XP GC752X GC752X Device auto-join and configure (zer-touch provisioning) Yes Yes Yes Multi-site, multi-network single pane-of-glass view Yes (per network/subTeCBAR Insight mobile approved for all Insight Managed Vex (per network/subTeCBAR Insight mobile) approved for all Insight Managed Vex (per network/subTeCBAR Insight mobile) approved for all Insight Managed Vex (per network/subTeCBAR Insight mobile) approved for all Insight Managed Vex (per network/subTeCBAR Insight mobile) approved for all Insight Managed Vex (per network/subTeCBAR Insight mobile) approved for all Insight Managed Vex (per network/subTeCBAR Insight mobile) approved for all Insight Claud Per approved for all Insight Managed Vex (per network/subTeCBAR Insight mobile) approved for all Insight Claud Per approved for all Insight Managed Vex (per subter for Claud (via mobile) device or Insight Claud Portal) Yes Yes SNMP VJA2 Yes Yes Yes SNMP VJA2 Yes Yes SNMP VJA2 Yes Yes SNMP VJA2 Yes Yes Cable test utiliy Yes Yes Nany-to-one port mirroring Yes Yes SLATTPS Web-based access (version) Yes Yes SLATTPS Web-based access (version) Yes Yes SLATTPS Web-based access (version) Yes Yes Systep (RFC 3164) Yes Yes Systep (RFC 3164)					
(zero touch provisioning) - 165 Multi-site, multi-network single pane-felgas view Yes Nuti-sivite, multi-network single pane-felgas view Yes (per network/subnet via NETGEAR Insight mobile app and Insight Clouc Portal) Network/global password (for all Insight Managed devices on a network) Yes 1 Password management Yes 1 1 Password management VLAN Yes 1 1 Stripping and maccess control via RADIUS and TACACS+ Yes 1 1 Pot management VLAN Yes 1		GC728X	GC728XP	GC752X	GC752XP
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) Password management Yes IP Access List Yes PAccess List Yes Configurable management VLAN Yes Admin access control via RADIUS and TACACS+ Yes IPV framagement Yes SNTP dient over UDP port 123 Yes Firmware update direct from Cloud (via mobile device or Insight Cloud Portal) Yes SNMP visith multiple IP addresses Yes RMON group 1,2,3,9 Yes Port mirroring Yes Cable ets utility Yes Ping and tracerout client Yes Cacal-only web browser-based management GUI with multiple language support2 Yes SUHTP's Web-based access (version) Yes TEP/HTP firmware uplad/download Yes Syslog (RFC 3164) Yes Syslog (RFC 3164) Yes Syslog (RFC 3164) Yes Syslog (RFC 3164) Yes S			Ye	es	
Network/global password (for all insight Managed devices on a network) Yes(per network/subnet via NETGEAR Insight mobile app and Insight Cloud Portal) Password management Yes Image: Second Seco	Multi-site, multi-network single pane-of-glass view		Ye	es	
devices on a network) Portal Portal Portal Password management Yes IP Access List 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 Many-to-one port mirroring Yes Cable test utility Yes Ping and tracerout client Yes (V1.0) SULTITPS Web-based access (version) Yes (V1.0) TES Web-based access (version) Yes Syslog (RFC 3164) Yes Syslog (RFC 3164) Yes Syslog (RFC 3164) Yes Syslog (RFC 3164) Yes Syslog (Multi-switch, multi-port concurrent configuration		Ye	2S	
IP Access List Yes Configurable management VLAN Yes Admin access control via RADIUS and TACACS+ Yes IPv6 management Yes IPv6 management Yes SNTP dient over UDP port 123 Yes Firmware update direct from Cloud (via mobile device or Insight Cloud Portal) Yes SNMP v1/v2c Yes SNMO solution Yes Cable text utility Yes SNMP v1/v2c Yes SSL/HTTPS Web-based access (version) Yes (v1.0) TETP/HTTP firmware upload/download Yes Dual software (firmware) image Yes Sys		Yes (per network/s			and Insight Cloud
Configurable management VLAN Yes Admin access control via RADIUS and TACACS+ Yes IPv6 management Yes SNTP client over UDP port 123 Yes Firmware update direct from Cloud (via mobile device or Insight Cloud Portal) Yes SNMP v1/v2c Yes SNMP v1/v2c Yes SNMP v3 with multiple IP addresses Yes RMON group 1,2,3,9 Yes Pott mirroring Yes Cable test utility Yes Inig and tracerout client Yes Cable test utility Yes Vis Sub-based management GUI Yes With multiple language support2 Yes StLTTPS Web-based ccess (version) Yes TLS Web-based access (version) Yes Us Spot for firmware update, configuration settings Yes Sylog (RFC 3164) Yes With outple file down- laads Yes USB port for firmware update, configuration settings updated/backup, and system log file down- laads Yes Sylog (RFC 3164) Yes Yes Mercorus Bort (for debugging only)	Password management		Ye	es	
Admin access control via RADIUS and TACACS+ Yes IPv6 management IPv6 manage	IP Access List		Ye	es	
IPv6 management Yes SNTP client over UDP port 123 Yes Firmware update direct from Cloud (via mobile device or Insight Cloud Portal) Yes SNMP v1/v2c Yes SNMP v1/v2c Yes SNMP v3 with multiple IP addresses Yes RMON group 1,2,3,9 Yes Port mirroring Yes Cable test utility Yes Ping and tracerout client Yes Local-only web browser-based management GUI Yes SUHTPTS Web-based access (version) Yes SUSL HTTPS Web-based access (version) Yes TLS Web-based access (version) Yes Dual software (firmware) image Yes Memory and flash log Yes Syslog (RFC 3164) Yes USS port for firmware updates, configuration settings upload/backup, and system log file down- based Yes Marco USB port (wast case, all ports used, full POE, Ine-rate traffic (Watts) N/A 43.9 W Max power (worst case, all ports used, full POE, Ine-rate traffic (Watts) N/A 437.1 W Min: 44.38 U/A Min power (link-cdown standby)(Watts) 13.7 W 25.3 W 39.4 W	Configurable management VLAN		Ye	es	
SNTP client over UDP port 123 Yes Firmware update direct from Cloud (via mobile device or Insight Cloud Portal) Yes SNMP v1/v2c 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 pot mirroring Yes Cable test utility Yes Ping and tracerout client Yes Local-only web browser-based management GUI Yes (v3) TLS Web-based access (version) Yes (v1.0) TETP/HTTPS Web-based access (version) Yes Syslog (RFC 3164) Yes USB port formware updates, configuration settings upload/backup, and system log file down-laad Yes Nicro-USB port (for debugging only) Yes Power Consumptio N/A 43.9 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 (worst case, all ports used, full POE, line-rate traffic) (Watts) N/A 437.1 W Mira 4438TU/hr Mira 1458BTU/hr	Admin access control via RADIUS and TACACS+		Ye	es	
Firmware update direct from Cloud (via mobile Yes Yes SNMP v1/v2c Yes Yes SNMP v3 with multiple Paddresses Yes Yes RMON group 1,2,3,9 Yes Yes Port mirroring Yes Yes Many-to-one port mirroring Yes Yes Cable test utility Yes Yes Ping and tracerout client Yes Yes SSL/HTTPS Web-based access (version) Yes (v1.0) Yes TLS Web-based access (version) Yes Yes Dual software (firmware update)/download Yes Yes Syslog (RFC 3164) Yes Yes VISS port (for debugging only) Yes Yes Power (worst case, all ports used, full PoE, Ine-rate traffic) (Watts) 18.5 W 47.1 W 43.9 W 118.6 W Min power (worst case, all ports used, full POE, Ine-rate traffic) (Watts) 13.7 W 25.5 W 25.3 W 39.4 W	IPv6 management		Ye	es	
device or hisight Cloud Portal) Tes 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 Ping and tracerout client Yes Local-only web browser-based management GUI Yes (v3) SSUHTPS Web-based access (version) Yes (v1.0) TLS Web-based access (version) Yes (v1.0) TLS Web-based access (version) Yes Dual software (firmware upload/download Yes Memory and flash log Yes Syslog (RFC 3164) Yes Wicro USB port for firmware updates, configuration set- tings upload/backup, and system log file down- acads Yes Micro USB port (for debugging only) Yes Max power (worst case, all ports used, full POE, Ine-rate traffic) (Watts) 18.5 W 47.1 W 43.9 W 118.6 W Min: power (worst case, all ports used, full POE, Ine-rate traffic) (Watts) 13.7 W 25.5 W 25.3 W 39.4 W	SNTP client over UDP port 123		Ye	es	
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 Ping and tracerout client Yes Local-only web browser-based management GUI Yes with multiple language support2 Yes SSL/HTTPS Web-based access (version) Yes (v1.0) TTEP/HTTP firmware upload/download Yes Dual software (firmware) image Yes Memory and flash log Yes Syslog (RFC 3164) Yes VSB port for firmware updates, configuration setting upload/backup, and system log file download Yes Micro-USB port (for debugging only) Yes Power Consumption Yes Max power (worst case, all ports used, full PoE, line-rate trafic) (Watts) 18.5 W 47.1 W 43.9 W 118.6 W Max power (worst case, all ports used, full PoE, line-rate trafic) (Watts) 13.7 W 25.3 W 39.4 W Max power (link-down standby) (Watts) 13.7 W Mir: 86.48 BTU/hr Mir: 84.43 BTU/hr Mir: 134.58 BTU/hr			Ye	?S	
MON group 1,2,9 Yes Port mirroring Yes Many-to-one port mirroring Yes Cable test utility Yes Ping and tracerout cliet Yes Local-only web browser-based management GUI Yes SL/HTTPS Web-based access (version) Yes (v1.0) TLS Web-based access (version) Yes Dual software (firmware upload/download Yes Dual software (firmware) image Yes Memory and flash log Yes Syslog (RFC 3164) Yes VSB port for firmware updates, configuration setting upload/backup, and system log file down-loads Yes Micro-USB port (for debugging only) Yes 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) 13.7 W 25.3 W 39.4 W 39.4 W	SNMP v1/v2c		Ye	es	
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with multiple language support2 Tes SSL/HTTPS Web-based access (version) Yes (v3) TLS Web-based access (version) Yes (v1.0) TFTP/HTTP firmware upload/download Yes Dual software (firmware) image Yes Memory and flash log Yes Syslog (RFC 3164) Yes USB port for firmware updates, configuration settings upload/backup, and system log file download Yes Micro-USB port (for debugging only) Yes Power Consumption Yes Max power (worst case, all ports used, full PoE, ine-rate traffic) (Watts) 18.5 W 47.1 W 43.9 W 118.6 W Max power (worst case, all ports used, full PoE, ine-rate traffic) (Watts) 1XA 437.1 W 623.6 W Min power (link-down standby) (Watts) 13.7 W 25.5 W 25.3 W 39.4 W	Ping and tracerout client		Ye	2S	
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Dual software (firmware) image Yes Memory and flash log Yes Syslog (RFC 3164) Yes USB port for firmware updates, configuration settings upload/backup, and system log file downloads Yes Micro-USB port (for debugging only) Yes Power Consumption Yes 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) 13.7 W 25.3 W 39.4 W Min power (link-down standby) (Watts) Min: 46.58 BTU/hr Min: 86.94 BTU/hr Min: 84.43 BTU/hr Min: 134.58 BTU/hr	TLS Web-based access (version)		Yes (v	/1.0)	
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line-rate traffic) (Watts)16.5 W47.1 W43.9 W116.6 WMax power (worst case, all ports used, full PoE, line-rate traffic) (Watts)N/A437.1 WN/A623.6 WMin power (link-down standby) (Watts)13.7 W25.5 W25.3 W39.4 WHeat DissipationMin: 46.58 BTU/hrMin: 86.94 BTU/hrMin: 84.43 BTU/hrMin: 134.58 BTU/hr	Power Consumption				
line-rate traffic) (Watts)IV/A437.1 WIV/A623.5 WMin power (link-down standby) (Watts)13.7 W25.5 W25.3 W39.4 WHeat DissipationMin: 46.58 BTU/hrMin: 86.94 BTU/hrMin: 84.43 BTU/hrMin: 134.58 BTU/hr		18.5 W	47.1 W	43.9 W	118.6 W
Heat Dissipation Min: 46.58 BTU/hr Min: 86.94 BTU/hr Min: 84.43 BTU/hr Min: 134.58 BTU/h	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)				



	default default 3 44 mm 440 x 320 x 44 mm						
Auto power down All models - Yes, deactivated by a fan(s) (temperature- and load-based speed control) Fan(s) (temperature- and load-based speed control) 1 2 1 Physical Specifications 440 x 224 x 44 mm (17.3 x 8.8 x 1.7 in) 440 x 224 x 44 mm (17.3 x 8.8 x 1.7 in)	default 3 44 mm 440 x 320 x 44 mm						
Fan(s) (temperature- and load-based speed control) 1 2 1 Physical Specifications Junction 440 x 224 x 44 mm (17.3 x 8.8 x 1.7 in) 440 x 224 x 44 mm (17.3 x 8.8 x 1.7 in)	3 44 mm 440 x 320 x 44 mm						
Control I Z I Physical Specifications 440 x 224 x 44 mm (17.3 x 8.8 x 1.7 in) 440 x 224 x 44 mm (17.3 x 8.8 x 1.7 in) 440 x 224 x 44 mm (17.3 x 8.8 x 1.7 in)	44 mm 440 x 320 x 44 mm						
Dimensions (W x D x H) 440 x 224 x 44 mm (17.3 x 8.8 x 1.7 in) 440 x 224 x 44 mm (17.3 x 8.8 x 1.7 in)							
(17.3 x 8.8 x 1.7 in) (17.3 x 8.8 x							
Weight 2.81 kg 3.79 kg 3.16 kg	(1.7 in) (17.3 x 12.6 x 1.7 ir						
(6.19 lb) (8.36 lb) (6.97 lb							
Mounting options Rackmount, desktop (kits inclu	uded)						
Environmental Specifications							
Operating							
Operating Temperature -0° to 50°C (32° to 122°F))						
Humidity 90% maximum relative humidity (RH), no	on-condensing						
Altitude 10,000 ft (3,000 m) maximu	um						
Storage							
Storage Temperature -20° to 70°C (- 4° to 158°F	-20° to 70°C (- 4° to 158°F)						
Humidity 95% maximum relative humidity (RH), no	95% maximum relative humidity (RH), non-condensing						
Altitude 10,000 ft (3,000 m) maximu	um						
Electromagnetic Emissions and Immunity Certifications							
CE Mark, Commercial EN55032:2012+AC:2013, Cla EN55024:2010+A1:2015 EN61000-3-2:2014, Class EN61000-3-3:2013 VCCI-CISPR 32:2016, Class VCCI-CISPR 32:2016, Class RCM, AS/NZS CISPR 32:2015 CL 47 CFR FCC Part 15, Subpart B, O ICES-003:2016 Issue 6, Class BSMI CNS13438, Class A KCC KN32 / KN35 CCC GB/T 9254-2008	5 A S A LASS A Class A Ss A						
Safety Certifications							
CB Mark, Commercial EN 60950-1: 2006 + A11:2009 + A1:2010 + A UL 60950-1, 2nd, 2014 and CAN/CSA C22.2 No. IEC 60950-1:2005 (ed.2) + Am 1:2009 RCM, AS/NZS 60950.1:201 BSMI CNS14336-1 KCC K60950-1 CCC GB4943.1-2011	. 60950-1-07, 2nd, 2014 9 + Am 2:2013						



Warranty and Support	GC728X	GC728XP	GC752X	GC752XP
Hardware Limited Warranty	5 years	5 years	5 years	5 years
Next-Business-Day (NBD) Replacement	5 years	5 years	5 years	5 years
Technical support (online, phone)	90 days free from date of purchase*			
ProSUPPORT OnCall 24x7 Service Packs**	PMB0311 (1 yr.) PMB0331 (3 yrs.) PMB0351 (5 yrs.)		PMB0312 (1 yr.) PMB0332 (3 yrs.) PMB0352 (5 yrs.)	
Package Contents				
	NETGEAR Smart Managed Pro 28-Port or 52-Port Gigabit Ethernet Switch with 2 SFP and 2 SFP+ 10G Fiber Ports			
	AC power cord (localized to country of sale)			
All models	Category 5e flat Ethernet cable (after 4/1/2019)			
	Rack-mounting kit			
	Rubber footpads for tabletop installation			
		Quick inst	tall guide	
Ordering Information				
GC728X-100NAS	North America and Latin America			
GC728X-100EUS	Europe and United Kingdom			
GC728X-100AJS	Japan, Asia Pacific, and Australia			
GC728XP-100NAS	North America and Latin America			
GC728XP-100EUS	Europe and United Kingdom			
GC728XP-100AJS	Japan, Asia Pacific, and Australia			
GC752X-100NAS	North America and Latin America			
GC752X-100EUS	Europe and United Kingdom			
GC752X-100AJS	Japan, Asia Pacific, and Australia			
GC752X-100PRS	China			
GC752XP-100NAS	North America and Latin America			
GC752XP-100EUS	Europe and United Kingdom			
	Japan, Asia Pacific, and Australia			

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.



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**	

*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.

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

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DS-GC728X/GC728XP/GC752X/GC752XP-5May20