

Experience the most versatile and easy to manage 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

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 Insight Managed Smart Cloud switches.

The Insight Managed Smart Cloud Gigabit Ethernet Switches 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 your Smart Cloud 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.

More innovative features for the most versatile and easy-to-manage switches in the market

Your network. Anytime. Anywhere.

The NETGEAR Insight Managed Smart Cloud Switches fundamentally change the way you think of networks and IT. Using the NETGEAR Insight app with Insight Managed Smart Cloud Switches 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-of-glass 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.

Data Sheet | GC110, GC110P, GC510PP

Insight Managed Gigabit Ethernet Smart Cloud Switches

Network-centric configuration and management

NETGEAR Insight Managed Switches 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 Insight Managed switches 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

Insight Managed switches have a modern, clean design, with simple power and cloud connection LEDs on the front. On the back (port side), there are also ata-glance cloud, power, fan, and PoE max¹ LEDs for quick status monitoring, and onport LEDs for link/activity and PoE power¹ allow for port-specific connectivity monitoring. GC110, GC110P, and GC510P models are all fanless and silent, while GC510PP has a whisper-quiet fan.

Great choice of non-PoE, PoE and PoE+ options

All models have 8 copper Gigabit Ethernet ports and two 1G SFP fiber ports for uplinks. On PoE/PoE+ models, all 8 gigabit copper ports support PoE or PoE+, with varying PoE power budgets to suit every need.

Build a future-proof network with NETGEAR Insight Managed 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
- Up to 195W PoE power, with the flexibility to add power-hungry devices such as 11ac Wireless APs, VoIP voice and video phones, security/surveillance cameras including PTZ, and other IoT devices
- Advanced per-port PoE controls (set specific power budget per port in addition to automatic class-defined) and PoE scheduling on PoE models

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						
Model Name	Form-Factor	LEDs (System)	100M/1G Copper (RJ-45) Ports	1G SFP Fiber Ports	PoE/PoE+ Ports (Budget)	LEDs (Per Port)	Power Supply	Fans	
GC110	Desktop, Wall mount	Cloud, Power	8	2 (dedicated)	N/A	Speed/Link/ Activity	External adapter	Fanless	
GC110P	Desktop, Wall mount	Cloud, Power, PoE Max	8	2 (dedicated)	8 PoE (62W)	Speed/Link/ Activity, PoE	External adapter	Fanless	
GC510P	Desktop, Wall mount, Rackmount (kit)	Cloud, Power, PoE Max	8	2 (dedicated)	8 PoE+ (134W)	Speed/Link/ Activity, PoE	1 internal PSU, fixed	Fanless	
GC510PP	Desktop, Wall mount, Rackmount (kit)	Cloud, Power, PoE Max, Fan	8	2 (dedicated)	8 PoE+ (195W)	Speed/Link/ Activity, PoE	1 internal PSU, fixed	1 internal fan, fixed	



GC110: 8-Port Gigabit Ethernet Insight Managed Smart Cloud Switch w/2 SFP Fiber Ports

- 8 x 1000BASE-T Copper ports supporting 1G/100M speeds
- 2 x 1000BASE-X Dedicated SFP Fiber ports
- Fanless (0dB)



GC110P: 8-Port Gigabit Ethernet PoE Insight Managed Smart Cloud Switch w/2 SFP Fiber Ports

- 8 x 1000BASE-T Copper PoE ports supporting 1G/100M speeds
- 2 x 1000BASE-X Dedicated SFP Fiber ports
- 62W PoE budget (fanless, 0dB)



GC510P: 8-Port Gigabit Ethernet PoE+ Insight Managed Smart Cloud Switch w/2 SFP Fiber Ports

- 8 x 1000BASE-T Copper PoE+ ports supporting 1G/100M speeds
- 2 x 1000BASE-X Dedicated SFP Fiber ports
- 134W PoE budget (fanless, 0dB)



GC510PP: 8-Port Gigabit Ethernet PoE+ High-Power Insight Managed Smart Cloud Switch w/2 SFP Fiber Ports

- 8 x 1000BASE-T Copper PoE+ ports supporting 1G/100M speeds
- 2 x 1000BASE-X Dedicated SFP Fiber ports
- 195W PoE budget (max 28dB @ 25°C / 77°F ambient)



Software at a Glance

MANAGEMENT			LAYER 2+ / LAYER 3 LITE FEATURES								
Device Management	Network-wide Management	IPv4/IPv6 ACL and QoS	IPv4/IPv6 Multicast Filtering	VLANs	Auto-VoIP, Auto-Video	Convergence	Link Aggregation/ Port Trunking	Jumbo Frame Support	IPv4 & IPv6 Static Routing		
NETGEAR Insight mobile app or Insight Cloud Portal for local/ remote/anywhere management from your mobile device, PC, Mac, or tablet Local web browser- based management GUI 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 5 LAGs with max 8 members)	Yes (up to 9,216 packet size)	Yes		

Performance at a Glance

Model Name	CPU & Memory	Fabric (Full- duplex)	Latency (64-byte Packet)	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
GC110 GC110P GC510P GC510PP	400 MHz Cortex- A9 Single Core, 256MB RAM 8MB SPI + 256 NAND FLASH	20Gbps line-rate	1G Copper: 3.000 μs 1G SFP: 2.000 μs	1.5 MB	14.9 Mfps	100 (shared)	16K MAC (dynamic) 384 ARP/128 NDP 256 VLANs	IPv4: 32 IPv6: 31	8 (WRR)	512



Features and Benefits

• Port-based egress rate limiting

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 (GC110P)/ PoE+ (GC510P/GC510PP) connections	Support high-density VoIP, Surveillance and Wi-Fi AP deployments, scalable for future growth. Never face the risk of running out of PoE ports or PoE power budget.
1000BASE-X SFP ports	Two dedicated Gigabit SFP ports Dedicated SFP ports provide fiber uplinks without sacrificing any downlink copper Gigabit Ethernet port, and across long distances. Support for Fiber and Copper modules.
Front Cloud & Power LEDs	Quickly confirm switch has power and is connected to the cloud/internet.
Silent or Low (GC510PP) Acoustics	Fanless design (all except GC510PP) allows for silent operation; temperature- and load-based fan-speed control (GC510PP) provides whisper-quiet operation; great for deployment in noise-sensitive environments.
Energy Efficient Ethernet (IEEE 802.3az)	Maximum power reduction for ongoing operation cost savings.
Desktop, Wall mount, or Rackmount (GC510P, GC510PP)	Flexible deployment on desktop, wall or other location using 75mm VESA-compliant mounts, or rackmount using the included rackmount kit (GC510P, GC510PP only).
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.
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 authentication (EAP) • Port-based security by locked MAC • ACL filtering to permit or deny traffic based on MAC and IP addresses	Build a secured, converged network with all types of traffic by preventing external attacks and blocking malware while allowing secure access for authorized users.
Comprehensive QoS features: • Port-based or VLAN 802.1p-based prioritization • Layer 3-based (DSCP) prioritization	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 classifying 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 forwarded 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 (except GC110)	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 app, 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 Insight Managed Smart Cloud Services

NETGEAR is revolutionizing unified, centralized network management with it's new line of Insight Managed Smart Cloud Switches 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.

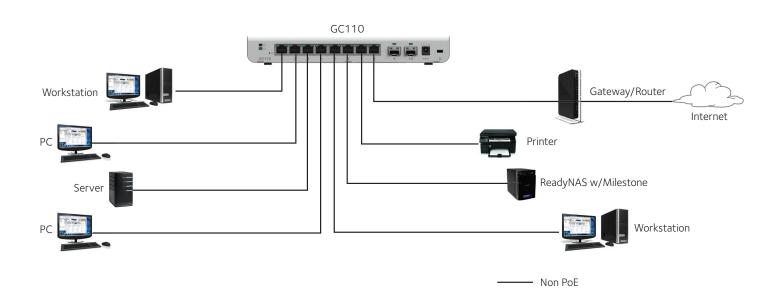
- Ideal for SMBs, offices, retail stores, education, healthcare, owner-operated businesses, etc.
- IT expert or no networking experience at all: Insight Managed Smart Cloud Switches let you focus on your business, not maintaining your network.
- Know immediately if and when your network is not running 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.

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. Therefore, PoE-capable versions (GC110P, GC510PP) are designed with PoE power budgets to meet the current and future needs of wireless converged networks.

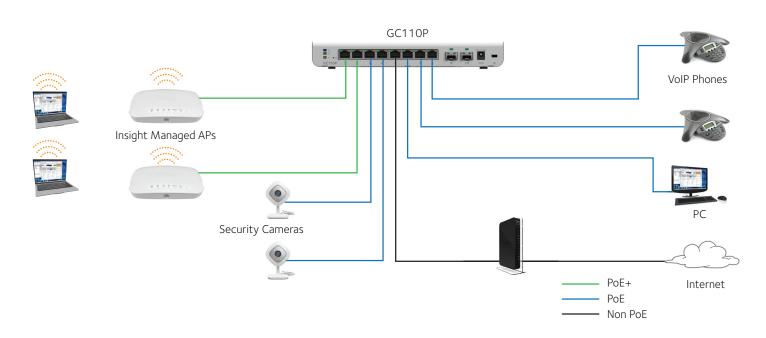


Example Application

In A Business/ Retail Environment



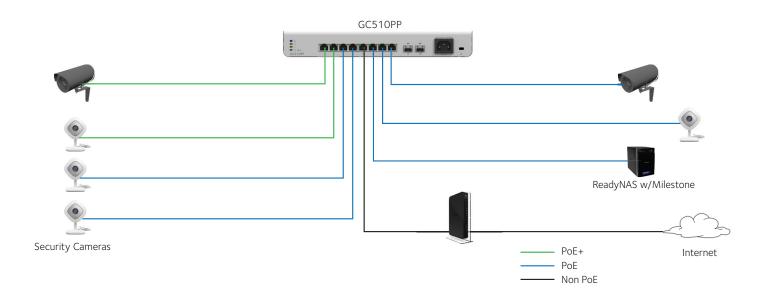
In A Small Office/ Workgroup Environment





Example Application

In A Security and Surveillance Environment





Large screen access via Insight Cloud Portal

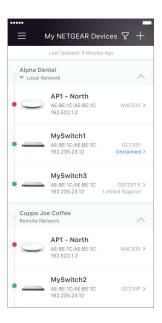








Network dashboard



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



Technical Specifications	GC110	GC110P	GC510P	GC510PP
Gigabit Ethernet RJ-45 Copper ports (10M/100M/1G) - 1000BASE-T	8	8	8	8
PoE/PoE+ ports	N/A	8 PoE (62W PoE budget)	8 PoE+ (134W PoE budget)	8 PoE+ (195W PoE budget)
Gigabit SFP (fiber) ports (100M/1G) - 1000BASE-X	2 (dedicated)	2 (dedicated)	2 (dedicated)	2 (dedicated)
Power Supply	External Input: 12V/1.5A	External Input: 48V/1.67A	Internal 100-240VAC ~ 50-60Hz, 2A Max	Internal 100-240VAC ~ 50-60Hz, 4A Max
Kensington Lock	Yes (rear)	Yes (rear)	Yes (rear)	Yes (rear)
LEDs				
Front (per device)		Cloud/Internet C	onnection, Power	
Rear (per device)	Cloud/Internet Connection, Power	Cloud/Internet Connection, Power, PoE Max	Cloud/Internet Connection, Power, PoE Max	Cloud/Internet Connection, Power, PoE Max, Fan Status
Rear (per port)	Speed/Link/ Activity	Speed/Link/ Activity	Speed/Link/ Activity (left), PoE Power (right)	Speed/Link/ Activity (left), PoE Power (right)
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	or from any PC, M	ac, or tablet web br	your hand using Ins owser using the Insi	ght Cloud Portal
Centralized network configuration (policies)		Access Points, and	olicies) across Insigh Business-class Read	
Device auto-join and configure (zero-touch provisioning)		Managed devices a tomatically inherit th	added ne network configura	ation
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 ie using the Port Coi	e ports across multi nfig Wizard	ple switches
Performance Specification				
CPU	400 MHz Cortex-A NAND FLASH	49 Single Core, 2561	MB RAM, 8MB SPI +	256MB
Packet buffer memory (Dynamically shared across only used ports)	1.5 MB			
Forwarding modes	Store-and-forward	H		
Bandwidth (non-blocking, full duplex)	20Gbps			
Priority queues	8			
Priority queuing	Weighted Round	Robin (WRR) and St	rict Priority	
MAC Address database size (48-bit MAC addresses)	16K (dynamic)			



Performance Specification	GC110	GC110P	GC510P	GC510PP		
Multicast Groups		5′	12			
Number of IPv4 static routes	32					
Number of IPv6 static routes	31					
Number of ARP/NDP cache entries		384 ARP /	128 NDP			
Number of VLANs		25	56			
Number of DHCP snooping bindings		8	K			
Access Control Lists (ACLs)		100 shared for MA	C, IP and IPv6 ACLs			
Packet forwarding rate (64 byte packet size) (Mfps or Mpps)		14				
1G Copper latency (µsec) (64-byte; 1518-byte; 9216-byte frames)		•	3.000 µsec 3.040 µsec 3.100 µsec			
1G SFP Fiber latency (µsec) (64-byte; 1518-byte; 9216-byte frames)		1518-bye:	1.000 µsec 2.140 µsec 2.180 µsec			
Jumbo frame support		Up to 9,216	packet size			
Acoustic noise level @ 25° C (dBA) (ANSI-S10.12)	0 dBA (fanless)	0 dBA (fanless)	0 dBA (fanless)	28 dBA		
Mean Time Between Failures (MTBF) @ 25° C	4,013,311 hrs (458 yrs)	2,976,994 hrs (340 yrs)	692,457 hrs (79 yrs)	381,503 hrs (44 yrs)		
POE Configuration						
Number of PoE (802.3af) / PoE+ (802.3at) ports	N/A	8 PoE	8 PoE+	8 PoE+		
Total PoE power budget (watts)	N/A	62 W	134 W	195 W		
Advanced per-port PoE controls (enable/disable/power limit)	N/A	Yes	Yes	Yes		
Advanced per-port PoE scheduling/timers	N/A	Yes	Yes	Yes		
L2 Services - VLANS						
IEEE 802.1Q VLAN Tagging		Ye	es			
MAC-based VLANs		Ye	es			
Auto-VoIP VLAN / Auto-Voice VLAN	Yes, based o	on OUI bytes (default in the phone sou	: database and user-l rce MAC address	pased OUIs)		
Auto-VoIP	Yes	, based on protocols Prioritzes traffic to	s (SIP, H.323 and SCC o a higher queue.	CP).		
Voice VLAN			or 802.1p priority, pa VoIP phone using LLI			
Auto-Video VLAN		Ye	es			
Private VLAN		Ye	es			
L2 Services - Availability						
Broadcast, multicast, unknown unicast storm control		Ye	es			
IEEE 802.3ad - LAGs (LACP)		Ye	es			

L2 Services - Availability	GC110	GC110P	GC510P	GC510PP
IEEE 802.3x (full duplex and flow control)		Yes		
IEEE 802.1D Spanning Tree Protocol		Yes		
IEEE 802.1w Rapid Spanning Tree Protocol		Yes		
IEEE 802.1s Multiple Spanning Tree Protocol		Yes		
Layer 2 DHCP Relay		Yes		
L2 Services - Multicast Filtering				
IGMP snooping (v1, v2 and v3)		Yes		
MLD snooping support (v1 and v2)		Yes		
IGMP snooping queries		Yes		
Block unknown multicast		Yes		
Multicast VLAN Registration (MVR)		No		
Multicast groups		512)	
L3 Services - DHCP				
DHCP client		Yes		
DHCP snooping		Yes		
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		
Number of IP VLAN interfaces (routed VLANs)		15		
Link Aggregation				
IEEE 802.3ad - LAGs (LACP)		Yes		
Manual Static LAG		Yes		
# of Static or LACP LAGs # of members in each LAG		5 LAGs with max 8 me	mbers in each LA	G
Network Monitoring and Discovery Services				
802.1ab LLDP		Yes		
LLDP-MED		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) 12 / L3 / L4 IP-based ACLs (IP-4 and IPv6) Yes MAC-based ACLs Yes TCP/UPD-based ACLS Yes MAC lockdown Yes MAC lockdown by the number of MACs Yes MAC lockdown by the number of MACs Yes Control MAC # Dynamic learned entries (per port) 48 IEEE 802.1 x RADIUS port access Yes (MDS, EAP, PEAP) Port-based security by locked MAC addresses Yes Port-based security by locked MAC addresses Yes Dynamic ARP inspection No Broadcast multicast, unknown unicast storm control Yes Port-based ACLS Yes Port-based DoS Yes Port-based QoS Yes	Network Security	GC110	GC110P	GC510P	GC510PP		
P-based ACLs (IP-4 and IP-6)	RADIUS accounting		Yes	3			
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 (MDS, EAP, PEAP) Port-based security by locked MAC addresses Yes Dynamic ARP inspection No Broadcast, multicast, unknown unicast storm control Yes Broadcast, multicast, unknown unicast storm control Yes DoS attacks prevention Yes Protected ports Yes Quality of Service (QOS) Yes Port-based rate limiting Yes, egress Port-based QoS Yes, ingress Support for IPv6 fields Yes Support for IPv6 fields Yes Prevalud of Service (QOS) Yes IEEE 802.1p COS Yes IPv4 and IPv6 foS Yes	Access Control Lists (ACLs)	L2/L3/L4					
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, EAP, PEAP) Port-based security by locked MAC addresses Yes (MD5, EAP, 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, egress Port-based Provide (QoS) Yes Support for IPv6 fields Yes UffServ QoS Yes, ingress EEEE 802.1p COS Yes Destination MAC and IP Yes IPv4 and v6 DSCP Yes IPv4 and v6 ToS Yes Provided Round Robin (WRR) Yes Strict priority queue technology Yes Weight	IP-based ACLs (IPv4 and IPv6)	Yes					
MAC lockdown by the number of MACs Yes Control MAC # Dynamic learned entries (per port) 4096 Control MAC # static entries (per port) 48 EEEE 802.1x RADIUS port access authentication/type Yes (MDDS, EAP, PEAP) Port-based security by locked MAC addresses Yes Dynamic ARP inspection No Broadcast, multicast, unknown unicast storm control Yes DoS attacks prevention Yes Port-based rate limiting Yes, egress Port-based rate limiting Yes, egress Port-based QoS Yes Support for IPv6 fields Yes Destination MAC and IP Yes IPv4 and v6 DSCP Yes Veg Yes Veglighted Round Robin (WRR) Yes Strict priority queue technology Yes, based on protocols (SIP, H.323 and SCCP). Prioritizes traffic to a higher queue. Voice VLAN Yes, based on protocols (SIP, H.323 and SCCP). Prioritizes traffic to a higher queue. Voice VLAN Yes, based on protocols (SIP, H.323 and SCCP). Prioritizes traffic to a higher queue. Voice VLAN Yes, based on protocols (SIP, H.323 and SCCP). Prioritizes traffic to a higher queue. <td>MAC-based ACLs</td> <td></td> <td>Yes</td> <td>5</td> <td></td>	MAC-based ACLs		Yes	5			
MAC lockdown by the number of MACs Yes Control MAC # static entries (per port) 4096 Control MAC # static entries (per port) 48 IEEE 802.1x RADIUS port access authentication/type Yes (MD5, EAP, PEAP) Port-based security by locked MAC addresses Yes Dynamic ARP inspection No Broadcast, multicast, unknown unicast storm control Yes Protected ports Yes Countries of Service (Oos) Port-based rate limiting Yes, egress Port-based QoS Yes Support for IPv6 fields Yes Support for IPv6 fields Yes IEEE 802.1p COS Yes IEEE 802.1p COS Yes IPv4 and v6 DSCP Yes IPv4 and v6 DSCP Yes Velay that was an authority queue technology Yes Velighted Round Robin (WRR) Yes Auto-VolP VLAN / Auto-Voice VLAN Yes, based on Protocols (SIP, H.323 and SCCP), Prioritzes traffic to a higher queue. Voice VLAN Yes, based on protocols (SIP, H.323 and SCCP), Prioritzes traffic to a higher queue. Voice VLAN Yes, based on protoco	TCP/UPD-based ACLs		Yes	6			
Control MAC # Dynamic learned entries (per port) 48 Control MAC # static entries (per port) 48 IEEE 802.1x RADIUS port access authentication/type Yes (MDS, EAP, PEAP) Port-based security by locked MAC addresses Yes Dynamic ARP inspection No Broadcast, multicast, unknown unicast storm control Yes DOS attacks prevention Yes Port-based ports Yes Protected ports Yes Port-based rate limiting Yes, egress Port-based QoS Yes Support for IPv6 fields Yes DiffServ QoS Yes, ingress IEEE 802.1p COS Yes Destination MAC and IP Yes IPv4 and IPv6 ToS Yes IPv4 and IPv6 ToS Yes Strict priority queue technology 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). Priority prackets are passed on the rivLAN ID or 802.1 p priority, packets are passed on the rivLAN ID or 802.1 p priority, packets are passed on the rivLAN ID or 802.1 p priority, packets are passed on the rivLAN ID or 802.1 p priority, packets are passed on the rivLAN ID or	MAC lockdown		Yes	5			
Control MAC # static entries (per port) IEEE 802.1x RADIUS port access authentication/type Port-based security by locked MAC addresses Dynamic ARP inspection Roos Broadcast, multicast, unknown unicast storm control DoS attacks prevention Protected ports Port-based rate limiting Yes, egress Port-based QoS Yes Support for IPv6 fields Yes Uniffser QoS Pestation MAC and IP Fiv4 and v6 DSCP IPv4 and v6 DSCP Strict priority queue technology Auto-VoIP VLAN / Auto-Voice VLAN Auto-VoIP VLAN / Auto-Voice VLAN Ves, based on protocols (SIP, H.323 and SCCP). Prioritzes traffic to a hiper requeue. Vice VLAN Auto-Voice	MAC lockdown by the number of MACs		Yes	6			
Per Bol 2.1x RADIUS port access authentication/type Port-based security by locked MAC addresses Yes	Control MAC # Dynamic learned entries (per port)		409	6			
Port-based security by locked MAC addresses Port-based security by locked MAC addresses Dynamic ARP inspection Rocal cast, multicast, unknown unicast storm control DoS attacks prevention Protected ports Cuality of Service (OoS) Port-based rate limiting Port-based rate limiting Port-based ADS Support for IPv6 fields Possible Service Possible	Control MAC # static entries (per port)		48				
Dynamic ARP inspection Broadcast, multicast, unknown unicast storm control DoS attacks prevention Protected ports Cuality of Service (QoS) Port-based rate limiting Port-based QoS Port-based QoS Support for IPv6 fields Support for IPv6 fields Postination MAC and IP Pv4 and v6 DSCP Pv4 and v6 DSCP Pv4 and v6 DSCP Ves IPv4 and v6 DSCP Ves Ves Ves Ves Ves Ves Ves Ves			Yes (MD5, E	AP, PEAP)			
Broadcast, multicast, unknown unicast storm control DoS attacks prevention Protected ports Protected ports Cuality of Service (QoS) Port-based rate limiting Port-based QoS Port-based Port-based QoS Port-based Port-based Port-based QoS Port-based Port-based Port-based Port-based QoS Port-based Port-based Port-based QoS Port-based Port-based QoS Po	Port-based security by locked MAC addresses		Yes	5			
storm control DoS attacks prevention Protected ports Protected ports Port-based rate limiting Port-based QoS Port-based Port-based Port-based QoS Port-based Port-based Port-based Port-based QoS Port-based P	Dynamic ARP inspection		No)			
Protected ports Quality of Service (QoS) Port-based rate limiting Port-based QoS Port-based QoS Support for IPv6 fields Port-based QoS Support for IPv6 fields Pres Support for IPv6 fields			Yes	5			
Port-based rate limiting Port-based QoS Port-based QoS Port-based QoS Support for IPv6 fields Port-based Pres Port-based Oulls pite (default database and user-based Oulls) in the phone source MAC address Port-based Oulls pite (default database and user-based Oulls) in the phone source MAC address Prioritzes traffic to a higher queue. Prioritzes traffic to a higher queue. Port-Port-Port-Port-Port-Port-Port-Port-	DoS attacks prevention	Yes					
Port-based QoS Yes Support for IPv6 fields Yes DiffServ QoS Yes, ingress IEEE 802.1 p COS Yes Postination MAC and IP Yes IPv4 and v6 DSCP Yes IPv4 and IPv6 ToS Yes IPv4 and IPv6 ToS Yes Yes Yes Yes Yes Yes Yes Yes Yes Weighted Round Robin (WRR) Yes Strict priority queue technology Yes, based on OUI bytes (default database and user-based OUIs) in the phone source MAC address Auto-VoIP VLAN / Auto-Voice VLAN Yes, based on out bytes (default database and user-based OUIs) in the Phone source MAC address Voice VLAN Yes, based on either VLAN ID or 802.1 p priority, packets are passed onto the connecting VoIP phone using LLDP-MED. Auto-VolPe VLAN / Auto-Voice VLAN Yes, based on either VLAN ID or 802.1 p priority, packets are passed onto the connecting VoIP phone using LLDP-MED. Auto-Volee VLAN Yes Other Features Advanced per-port PoE controls (enable/disable/power limit) N/A N/A Yes Yes	Protected ports	Yes					
Port-based QoS Yes Support for IPv6 fields Yes DiffServ QoS Yes, ingress IEEE 802.1 p COS Yes Destination MAC and IP Yes IPv4 and v6 DSCP Yes IPv4 and IPv6 ToS Yes TCP/UDP-based Yes Weighted Round Robin (WRR) Yes Strict priority queue technology Yes Auto-VoIP VLAN / Auto-Voice VLAN Yes, based on OUI bytes (default database and user-based OUIs) in the phone source MAC address Auto-VoIP Yes, based on protocols (SIP, H.323 and SCCP). Prioritzes traffic to a higher queue. Voice VLAN Yes, based on either VLAN ID or 802.1 p priority, packets are passed on to the connecting VoIP phone using LLDP-MED. Auto-Video VLAN Yes Other Features N/A N/A Yes Yes	Quality of Service (QoS)						
Support for IPv6 fields DiffServ QoS Yes, ingress IEEE 802.1 p COS Yes Destination MAC and IP Yes IPv4 and v6 DSCP IPv4 and IPv6 ToS Yes TCP/UDP-based Yes Weighted Round Robin (WRR) Strict priority queue technology Auto-VoIP VLAN / Auto-Voice VLAN Auto-VoIP VLAN / Auto-Voice VLAN Ves, based on OUI bytes (default database and user-based OUIs) in the phone source MAC address Auto-VoIP VLAN in the phone source MAC address Auto-VoIP vice VLAN in the phone source MAC address Auto-VoIP vice VLAN in the phone source MAC address Auto-Voice VLAN Yes, based on either VLAN ID or 802.1 p priority, packets are passed onto the connecting VoIP phone using LLDP-MED. Auto-Video VLAN Yes Other Features Advanced per-port PoE controls (enable/disable/power limit) N/A N/A Yes Yes	Port-based rate limiting		Yes, egi	ress			
DiffServ QoS IEEE 802.1 p COS Destination MAC and IP Yes IPv4 and v6 DSCP Yes IPv4 and IPv6 ToS TCP/UDP-based Yes Weighted Round Robin (WRR) Strict priority queue technology Auto-VoIP VLAN / Auto-Voice VLAN Auto-VoIP VLAN / Auto-Voice VLAN Yes, based on Protocols (SIP, H.323 and SCCP). Prioritzes traffic to a higher queue. Voice VLAN Auto-Video VLAN Yes, based on either VLAN ID or 802.1 p priority, packets are passed onto the connecting VoIP phone using LLDP-MED. Auto-Video VLAN Aves Yes Yes Yes	Port-based QoS	Yes					
Destination MAC and IP Ves IPv4 and v6 DSCP IPv4 and IPv6 ToS TCP/UDP-based Weighted Round Robin (WRR) Strict priority queue technology Auto-VoIP VLAN / Auto-Voice VLAN Auto-VoIP VAN Yes, based on OUI bytes (default database and user-based OUIs) in the phone source MAC address Auto-VoIP Auto-VoIP Ves, based on protocols (SIP, H.323 and SCCP). Prioritzes traffic to a higher queue. Voice VLAN Auto-Video VLAN Aves Yes Advanced per-port PoE controls (enable/disable/power limit)	Support for IPv6 fields	Yes					
Destination MAC and IP IPv4 and v6 DSCP Yes IPv4 and IPv6 ToS TCP/UDP-based Yes Weighted Round Robin (WRR) Strict priority queue technology Auto-VoIP VLAN / Auto-Voice VLAN Auto-VoIP VLAN / Auto-Voice VLAN Auto-VoIP Yes, based on OUI bytes (default database and user-based OUIs) in the phone source MAC address Auto-VoIP Yes, based on protocols (SIP, H.323 and SCCP). Prioritzes traffic to a higher queue. Voice VLAN Yes, based on either VLAN ID or 802.1 p priority, packets are passed onto the connecting VoIP phone using LLDP-MED. Auto-Video VLAN Yes Other Features Advanced per-port PoE controls (enable/disable/power limit)	DiffServ QoS		Yes, ing	ress			
IPv4 and v6 DSCP IPv4 and IPv6 ToS TCP/UDP-based Weighted Round Robin (WRR) Strict priority queue technology Auto-VoIP VLAN / Auto-Voice VLAN Auto-VoIP VLAN / Auto-Voice VLAN Yes, based on OUI bytes (default database and user-based OUIs) in the phone source MAC address Auto-VoIP Yes, based on protocols (SIP, H.323 and SCCP). Prioritzes traffic to a higher queue. Voice VLAN Yes, based on either VLAN ID or 802.1p priority, packets are passed onto the connecting VoIP phone using LLDP-MED. Auto-Video VLAN Other Features Advanced per-port PoE controls (enable/disable/power limit) N/A N/A N/A Yes Yes	IEEE 802.1p COS		Yes				
IPv4 and IPv6 ToS TCP/UDP-based Yes Weighted Round Robin (WRR) Strict priority queue technology Auto-VoIP VLAN / Auto-Voice VLAN Auto-VoIP Yes, based on OUI bytes (default database and user-based OUIs) in the phone source MAC address Auto-VoIP Yes, based on protocols (SIP, H.323 and SCCP). Prioritzes traffic to a higher queue. Voice VLAN Yes, based on either VLAN ID or 802.1p priority, packets are passed onto the connecting VoIP phone using LLDP-MED. Auto-Video VLAN Yes Other Features Advanced per-port PoE controls (enable/disable/power limit) N/A N/A N/A Yes Yes	Destination MAC and IP		Yes				
TCP/UDP-based Yes Weighted Round Robin (WRR) Yes Strict priority queue technology Yes, based on OUI 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 higher queue. Voice VLAN Yes, based on either VLAN ID or 802.1p priority, packets are passed onto the connecting VoIP phone using LLDP-MED. Auto-Video VLAN Yes Other Features Advanced per-port PoE controls (enable/disable/power limit) N/A N/A Yes Yes	IPv4 and v6 DSCP		Yes				
Weighted Round Robin (WRR) Strict priority queue technology Auto-VolP VLAN / Auto-Voice VLAN Auto-VolP VLAN / Auto-Voice VLAN Auto-VolP Yes, based on OUI bytes (default database and user-based OUIs) in the phone source MAC address Yes, based on protocols (SIP, H.323 and SCCP). Prioritzes traffic to a higher queue. Voice VLAN Yes, based on either VLAN ID or 802.1p priority, packets are passed onto the connecting VolP phone using LLDP-MED. Auto-Video VLAN Other Features Advanced per-port PoE controls (enable/disable/power limit) N/A N/A N/A Yes Yes	IPv4 and IPv6 ToS		Yes				
Strict priority queue technology Auto-VoIP VLAN / Auto-Voice VLAN Auto-VoIP VLAN / Auto-Voice VLAN Auto-VoIP Auto-VoIP Auto-VoIP Yes, based on protocols (SIP, H.323 and SCCP). Prioritzes traffic to a higher queue. Voice VLAN Yes, based on either VLAN ID or 802.1p priority, packets are passed onto the connecting VoIP phone using LLDP-MED. Auto-Video VLAN Other Features Advanced per-port PoE controls (enable/disable/power limit) N/A N/A N/A Yes Yes	TCP/UDP-based		Yes				
Auto-VoIP VLAN / Auto-Voice VLAN Auto-VoIP Auto-VoIP Yes, based on OUI bytes (default database and user-based OUIs) in the phone source MAC address Yes, based on protocols (SIP, H.323 and SCCP). Prioritzes traffic to a higher queue. Yoice 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 Other Features Advanced per-port PoE controls (enable/disable/power limit) N/A N/A Yes Yes	Weighted Round Robin (WRR)		Yes				
Auto-VoIP VLAN / Auto-VoICe VLAN Auto-VoIP Yes, based on protocols (SIP, H.323 and SCCP). Prioritzes traffic to a higher queue. Voice VLAN 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 Other Features Advanced per-port PoE controls (enable/disable/power limit) N/A N/A N/A Yes Yes	Strict priority queue technology		Yes				
Voice VLAN 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 Other Features Advanced per-port PoE controls (enable/disable/power limit) N/A N/A N/A Prioritzes traffic to a higher queue. Yes Yes Advancet sare passed onto the connecting VoIP phone using LLDP-MED. N/A N/A Yes Yes	Auto-VoIP VLAN / Auto-Voice VLAN	Yes, based on (sed OUIs) in the		
Auto-Video VLAN Other Features Advanced per-port PoE controls (enable/disable/power limit) onto the connecting VoIP phone using LLDP-MED. Yes Yes Yes	Auto-VolP	Yes			CP).		
Other Features Advanced per-port PoE controls (enable/disable/power limit) N/A N/A Yes Yes	Voice VLAN						
Advanced per-port PoE controls (enable/disable/power limit) N/A N/A Yes Yes	Auto-Video VLAN		Yes				
(enable/disable/power limit)	Other Features						
Advanced per-port PoE scheduling N/A N/A Yes Yes		N/A	N/A	Yes	Yes		
	Advanced per-port PoE scheduling	N/A	N/A	Yes	Yes		



Insight Managed Gigabit Ethernet Smart Cloud Switches

Technical Specification	GC110	GC110P	GC510P	GC510PP	
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 802.3af PoE IEEE 802.3at PoE+ (GC510P, GC510PP 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	es		
Insight mobile app & Insight Cloud Portal management	Yes				
uPnP Discovery		Ye	es		
Bonjour Discovery	Yes				
Networking monitoring	Yes				
Data/performance logs		Ye	es		
Centralized network configuration/policies (network-centric management)		Ye	es		
Device auto-join and configure (zero-touch provisioning)		Ye	es		
Multi-site, multi-network single pane-of-glass view		Ye	es		
Multi-switch, multi-port concurrent configuration		Ye	es		
Network/global password (for all Insight Managed devices on a network)	Ye	s (per network/subne mobile app and In		ght	
Network/global password (for all Insight Managed devices on a network)	Yes (p	oer network/subnet v	via NETGEAR Insight	tapp)	
Password management		Ye	es		
IP Access List		Υe	25		
Configurable management VLAN		Υe	25		
Admin access control via RADIUS and TACACS+		Ye	es		
IPv6 management		Ye	es		
SNTP client over UDP port 123		Ye	es		
Firmware upgrade direct from Cloud (via mobile device or Insight Cloud portal)		Ye	es		
Port mirroring		Ye	25		
Many-to-one port mirroring		Y€	es		

Technical Specifications	GC110	GC110P	GC510P	GC510PP		
Cable test utility		Ye	es			
Ping and tracerout client	Yes					
Local-only web browser-based management GUI	Yes					
SSL/HTTPS Web-based access (version)		Yes	(v3)			
TLS Web-based access (version)		Yes (v1.0)			
TFTP/HTTP firmware upload/download		Ye	es			
Dual software (firmware) image		Ye	es			
Memory and flash log		Ye	es			
Syslog (RFC 3164)		Ye	es			
Power Consumption						
Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts)	10.1 W	10.3 W	10.3 W	10.3 W		
Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts)	N/A	74.4 W	146.9 W	200.0 W		
Min power (link-down standby) (Watts)	7.9 W	8.1 W	8.1 W	8.1 W		
Heat Dissipation (min w/o PoE and max with full PoE) (BTU/hr)	Min: 30.03 BTU/hr Max: 38.22 BTU/hr	Min: 30.71 BTU/hr Max: 282.07 BTU/hr	Min: 30.71 BTU/hr Max: 556.94 BTU/hr	Min: 30.71 BTU/h Max: 758.25 BTU/h		
Energy Efficient Ethernet (EEE) IEEE 802.3az	All models - Yes, deactivated by default					
Auto power down		All models - Yes, de	activated by default			
Fan(s) (temperature- and load-based speed control)	Fanless	Fanless	Fanless	1		
Physical Specifications						
Dimensions (W x D x H)	245 x 123 x 33 mm (9.6 x 4.8 x 1.3 in)	245 x 123 x 33 mm (9.6 x 4.8 x 1.3 in)	314 x 188 x 44 mm (12.4 x 7.4 x 1.7 in)	314 x 188 x 44 mr (12.4 x 7.4 x 1.7 in		
Weight	0.73 kg (1.61 lb)	0.77 kg (1.70 lb)	2.01 kg (4.43 lb)	2.23 kg (4.92 lb)		
Mounting options		els: Desktop, wall mo 510P/GC510PP: +R				
Environmental Specifications						
Operating						
Operating Temperature (Switch)	0° to 45°C (32° to 113°F)	0° to 45°C (32° to 113°F)	0° to 45°C (32° to 113°F)	0° to 45°C (32° to 113°F)		
Operating Temperature (External Power Adapter)	0° to 40°C (32° to 104°F)	0° to 40°C (32° to 104°F)	NA	NA		
Humidity	90% m	aximum relative hun	nidity (RH), non-cond	densing		
Altitude		10,000 ft (3,00	0 m) maximum			
Storage						
Storage Temperature		–20° C to 70° C	(- 4° F to 158° F)			
Humidity (relative)	95% m	aximum relative hun	nidity (RH), non-cond	densing		
Altitude	10,000 ft (3,000 m) maximum					



Electromagnetic Emissions and Immunity Certifications	GC110	GC110P	GC510P	GC510PP		
		CE Mark, C	ommercial			
		EN55032:2012+	AC:2013, Class A			
		EN55024:20	10+A1:2015			
		EN61000-3-2:	2014, Class A			
0. 25. 2	VCCI-CISPR 32:2016, Class A					
Certifications	RCM, AS/NZS CISPR 32:2015 CLASS A					
	47 CFR FCC Part 15, Subpart B, Class A					
		ICES-003:2016	Issue 6, Class A			
	BSMI CNS13438, Class A KCC KN32 / KN35					
		GB/T 925	54-2008 ³			
Safety Certifications						

CB Mark, Commercial

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

IEC 60950-1:2005 (ed.2) + Am 1:2009 + Am 2:2013

RCM, AS/NZS 60950.1:2015

BSMI CNS14336-1

KCC K60950-14

CCC GB4943.1-2011³

Warranty and Support				
Hardware Limited Warranty (Switch)	5 years	5 years	5 years	5 years
External Power Adapter Warranty	2 years	2 years	N/A	N/A
Next-Business-Day (NBD) Replacement	5 years			
Technical support (online, phone)	90 days free from date of purchase*			
ProSUPPORT OnCall 24x7 Service Packs**	PMB0S12 (1 yr) PMB0S32 (3 yrs) PMB0S52 (5 yrs)			
Package Contents				
	NETGEAR Insight Managed 8-Port Gigabit Ethernet Smart Cloud Switch with 2 SFP Fiber Ports			
All models	Rubber footpads for tabletop installation			
	Wall mount kit (with 75mm VESA standard pattern)			
	Quick Install Guide			
GC110, GC110P Only	DC	power adapter (loca	lized to country of s	ale)
GC510P, GC510PP Only	AC power cord (localized to country of sale) Rack mounting kit			

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).

Certifications

³ GC110, GC110P Only

⁴ GC510P, GC510PP Only

^{*} 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.



Ordering Information		
GC110-100NAS	North America and Latin America	
GC110-100PES	Europe	
GC110-100UKS	United Kingdom	
GC110-100AUS	Australia	
GC110-100JPS	Japan and Asia Pacific	
GC110-100KOS	Korea	
GC110-100PRS	China	
GC110P-100NAS	North America and Latin America	
GC110P-100PES	Europe	
GC110P-100UKS	United Kingdom	
GC110P-100AUS	Australia	
GC110P-100JPS	Japan and Asia Pacific	
GC110P-100PRS	China	
GC510P-100NAS	North America and Latin America	
GC510P-100EUS	Europe and United Kingdom	
GC510P-100AJS	Japan, Asia Pacific, and Australia	
GC510PP-100NAS	North America and Latin America	
GC510PP-100EUS	Europe and United Kingdom	
GC510PP-100AJS	Japan, Asia Pacific, and Australia	
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	
Extended Support Contracts		
PMB0S12-10000S	1-Year OnCall 24x7 Service Pack**	
PMB0S32-10000S	3-Year OnCall 24x7 Service Pack**	
PMB0S52-10000S	5-Year OnCall 24x7 Service Pack**	

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DS-GC110/GC110P/GC510P/GC510PP-12Aug19

^{&#}x27;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.