



NETGEAR®
BUSINESS

NETGEAR -
Comunicaciones
Reunidas

NOVIEMBRE 2022

Innovación a través de los años

First
Smart
Switch



2003

First 10G
Smart Switch



2011

Flexible
Mounting
Click Switch



2014

First Fully
Cloud Managed
Switches and
WiFi



2017

First DIY
WiFi Mesh
Solution for
Business



2017

Pro AV
modular
96-port 10G/
24-port
40G Switch



2018

High-density
WiFi with Cloud
management



2019

2020 /
2021



Multi-gig & Ultra60
PoE++ switches



Cloud managed
WiFi 6 Access Points

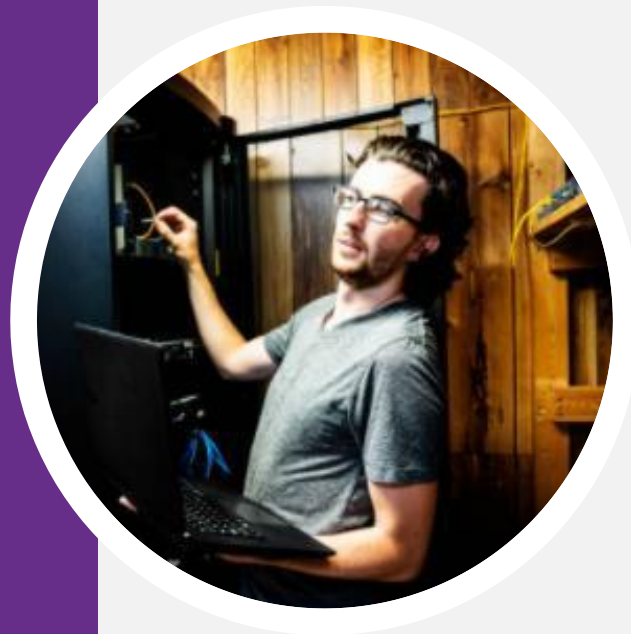


New line of switches
fully designed for
AV over IP

Redes de clase empresarial para la PYME con el precio adecuado

NETGEAR Business Target market

- Home office
- Micro businesses, retail pequeño & DIY
- Pequeños negocios sin departamento IT
- PYME con IT
- VARs y MSPs
- Integradores ProAV sobre IP





3 tendencias de la PYME en 2022

1. El trabajo desde casa llegó para quedarse, de diferentes maneras, para cada miembro del hogar
2. WiFi sigue creciendo a un ritmo acelerado; necesidad de más velocidad, clientes, cobertura, confiabilidad
3. El crecimiento de AV sobre IP se está acelerando; ventajas en diseño, velocidad/retraso, calidad de imagen y costo

NETGEAR Soluciones Innovadoras



NETGEAR INSIGHT

Cloud management & add-on services



WIFI 6

WiFi potente para home office y PYME



POE SWITCHES

Portfolio muy amplio



AV OVER IP

Red impecable para aplicaciones AV



NETGEAR Insight

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Retos

GROWING NETWORKING COMPLEXITY IN SMB

- Crecimiento del número de dispositivos
- BYOD
- Salas de espera con acceso WiFi seguro para visitas
- Aislamiento de red para seguridad y privacidad
- Acceso remoto 24/7

OPORTUNIDADES para resellers

83% de las pequeñas empresas no tienen personal IT

NETGEAR Insight Remote Cloud Management



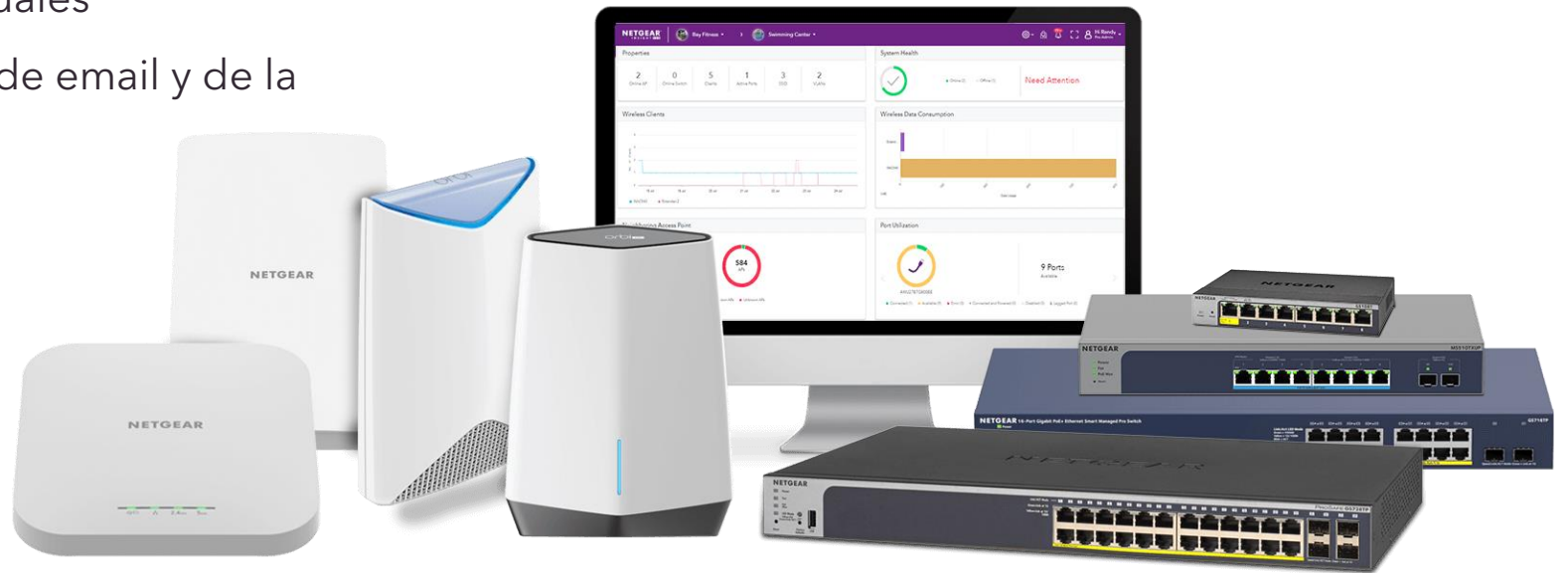
Ecosistema de NETGEAR Insight

- Dashboard centralizado
 - Fácil de usar y configurar
 - Gestión local y remota
 - Seguro y escalable
 - Alertas y troubleshooting
-
- Dispositivos:
 - Switching
 - Wireless LAN
 - Security
 - Storage



Automatización y funciones de gestión de Red

- Cuentas multiusuario y multilocalizaciones
- Multi-Role: Admin, IT manager, propietario
- Métodos flexibles de configuración
- Reports automáticos semanales/mensuales
- Notificaciones en tiempo real a través de email y de la APP
- 2-Factor Authentication
- Firmware scheduler, PoE scheduling
- Troubleshooting remoto



NETGEAR Insight Subscripciones

	INSIGHT PRO	INSIGHT PREMIUM
MULTI-TENANCY	YES	NO
MULTI-NETWORK LOCATION	YES	YES
IDEAL DEPLOYMENT	MSP, branch offices, remote workforce	Multi-location / single business, remote workforce
ANNUAL BILLING COST FOR SUBSCRIPTION	22€	9.99€

Beneficios de NETGEAR Insight Pro

End-to-end service delivery

Registro, setup/configuración, monitorización remota, gestión del firmware management, soporte

Dividir la carga de trabajo a través de multiples roles para gestion de toda la red

Múltiples roles de usuario y asignación de derechos

Crear un servicio de ingresos recurrentes rentables

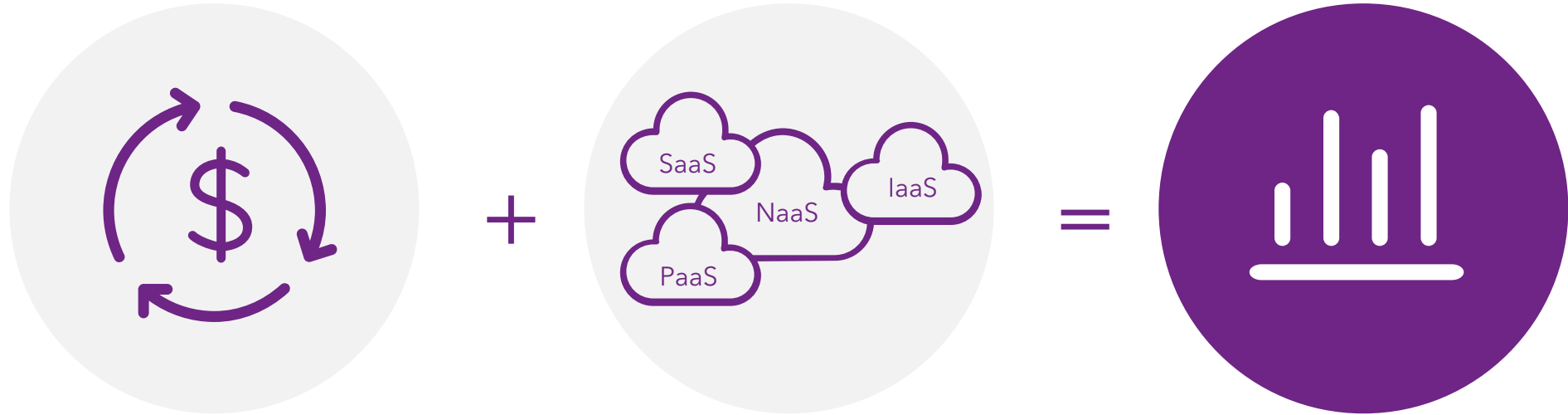
Aprovechar el bajo coste de propiedad (TCO) de Insight

Escale su negocio en la plataforma basada en la nube de Insight

Fácil de añadir clientes y crecer



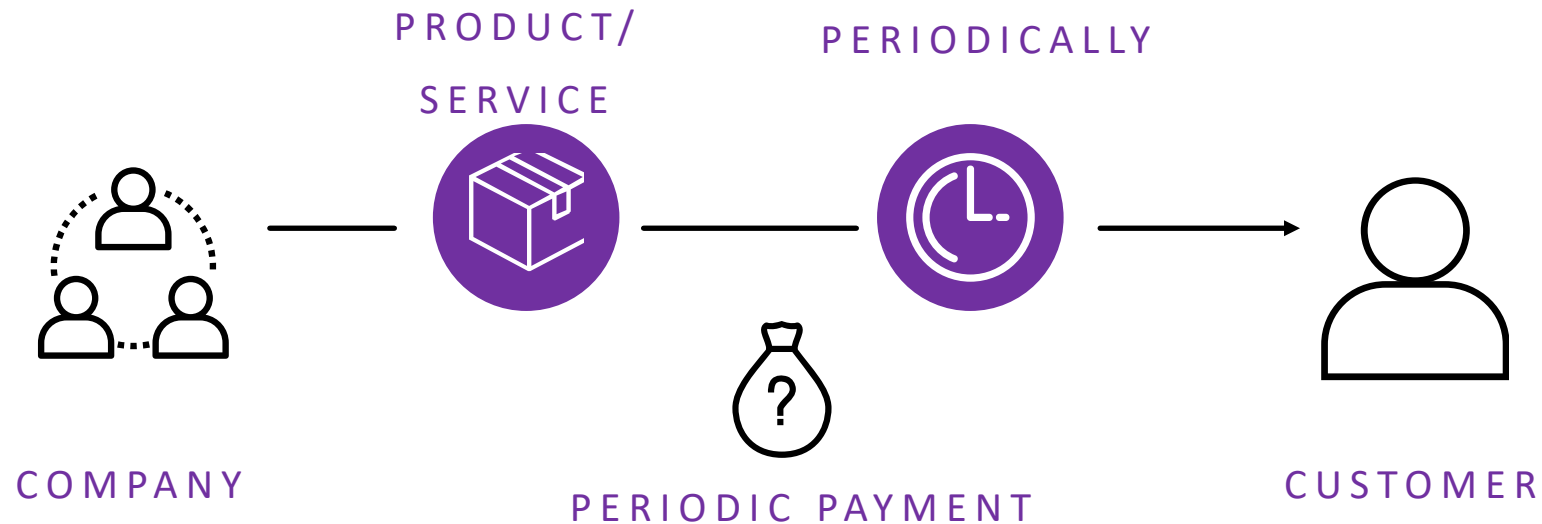
Modelo de servicio recurrente de ingreso



SERVICES BUSINESS MODEL
Recurring revenue

SELLING SERVICES
Network/IT as a Service

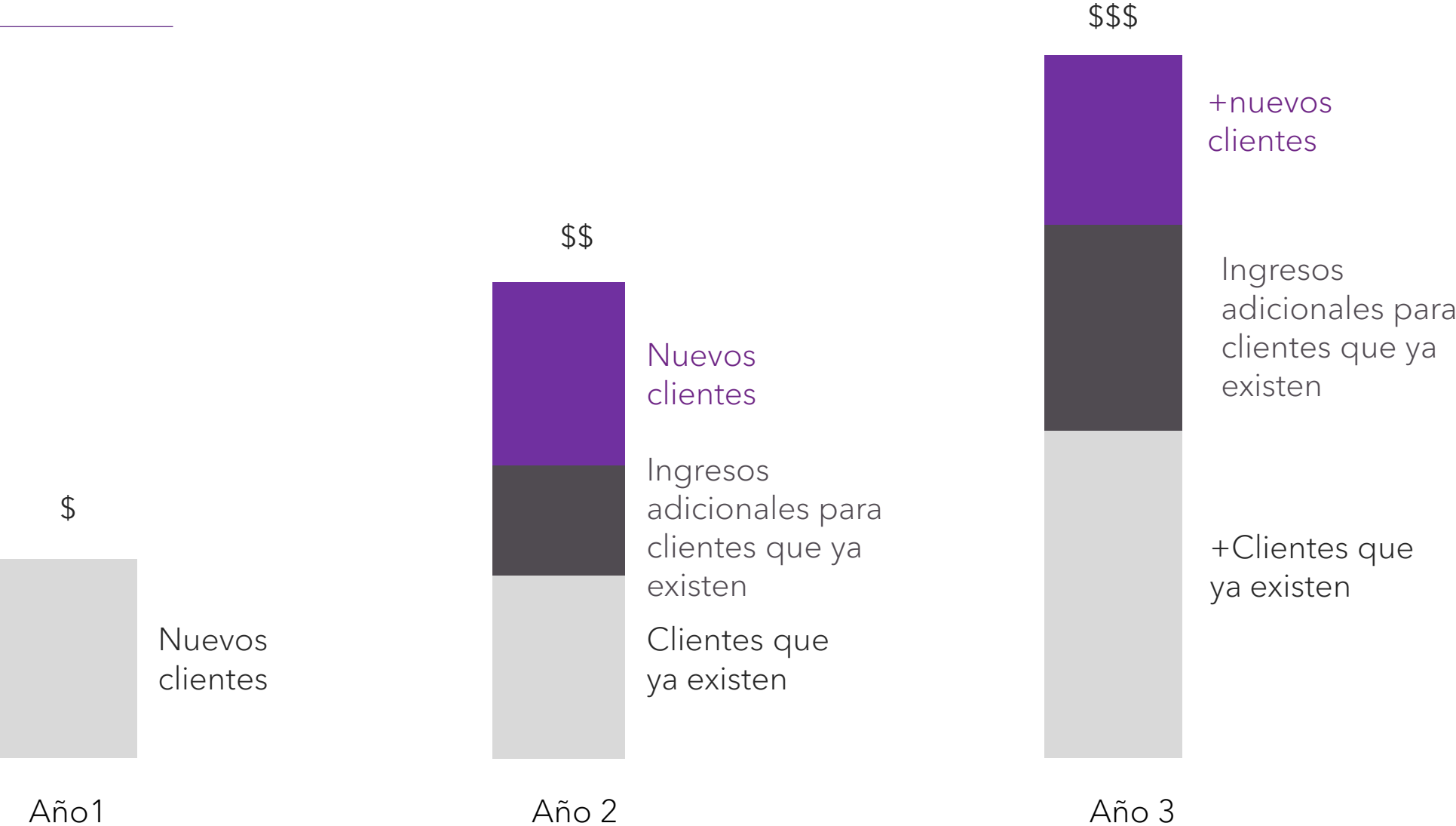
Modelo de servicio basado en suscripción



Beneficios del modelo de servicio

- Crecimiento más rápido de las empresas Mejor gestion del Cash Flow
- Retención alta de clientes
 - Mejores oportunidades de marketing
 - Consistencia de negocio
 - Escalable, seguro
 - Modelos de monetización más flexibles

Ganancias con ingresos recurrentes

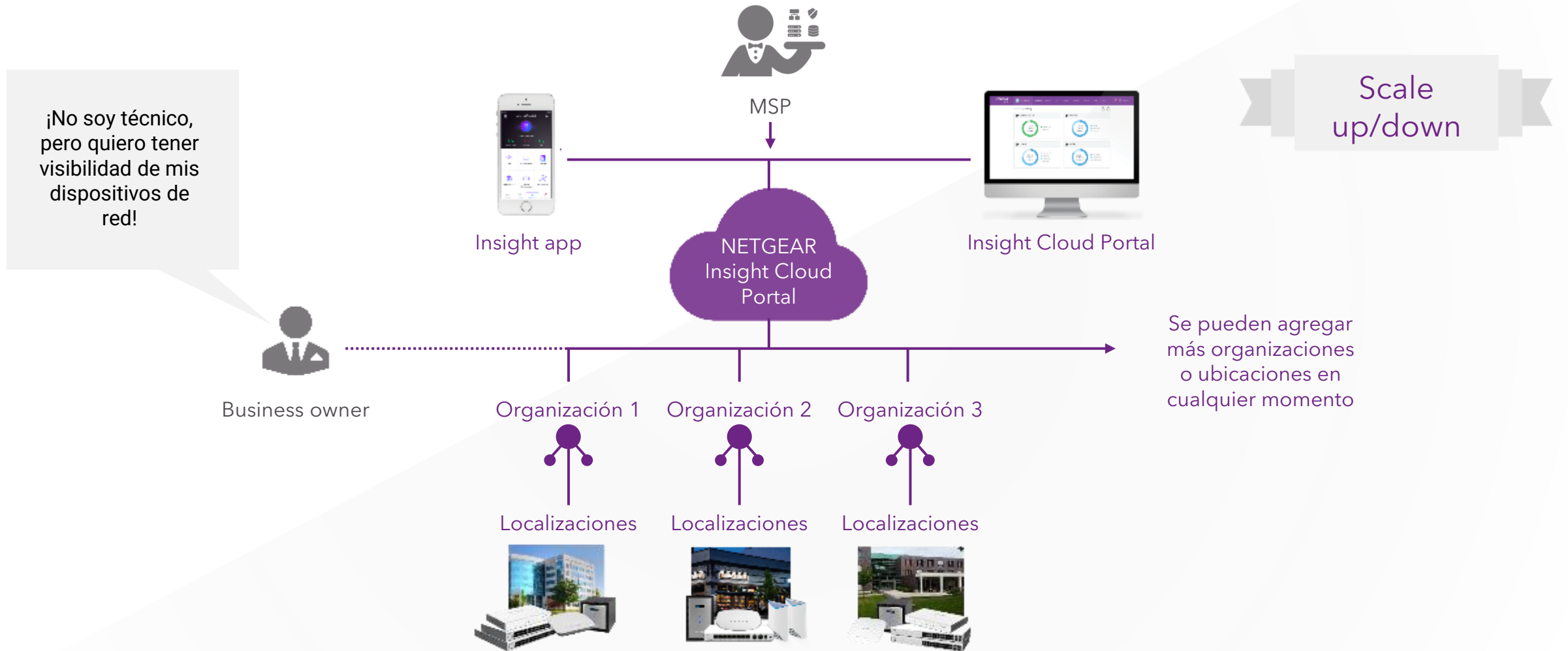


Gestión remota en la Nube para Resellers

- Instalación de la red centralizada, monitorización y gestión
- 24/7 Visibilidad y control
- Tiempos rápidos de respuesta
- Tareas repetitivas automatizadas
- Mejor servicio al cliente
- Escalable y mejoras en Tecnología futura
- Incremento del beneficio y bajo TCO
- Gestión flexible
- Fácil de usar



Jerarquía Insight Pro



NETGEAR Insight Fully Managed Wireless devices

Orbi Pro Router



Kit, bundles and Satellites
Mesh WiFi

5-Year Insight Premium Subscription
Included on Orbi Pro WiFi 6 Series

WAC510 - WAC540 - WAC564 - WAX610 - WAX610Y - WAX630



Cloud managed WiFi Access Points - PoE or PoE+
Instant Mesh for 540 and 564

1-Year Insight Subscription Included

Mobile Hotspot



Retail and AT&T exclusive Mobile Hotspots - M1
and M5

Mobile Hotspots con Insight

- Incorporación de nuevos dispositivos
- Creación de perfiles
- Reporte de dispositivos

- Administre un gran conjunto de dispositivos de acceso a Internet móvil por parte de una organización, como una escuela o una empresa.

Asigne roles y derechos: administrador, superusuario, usuario

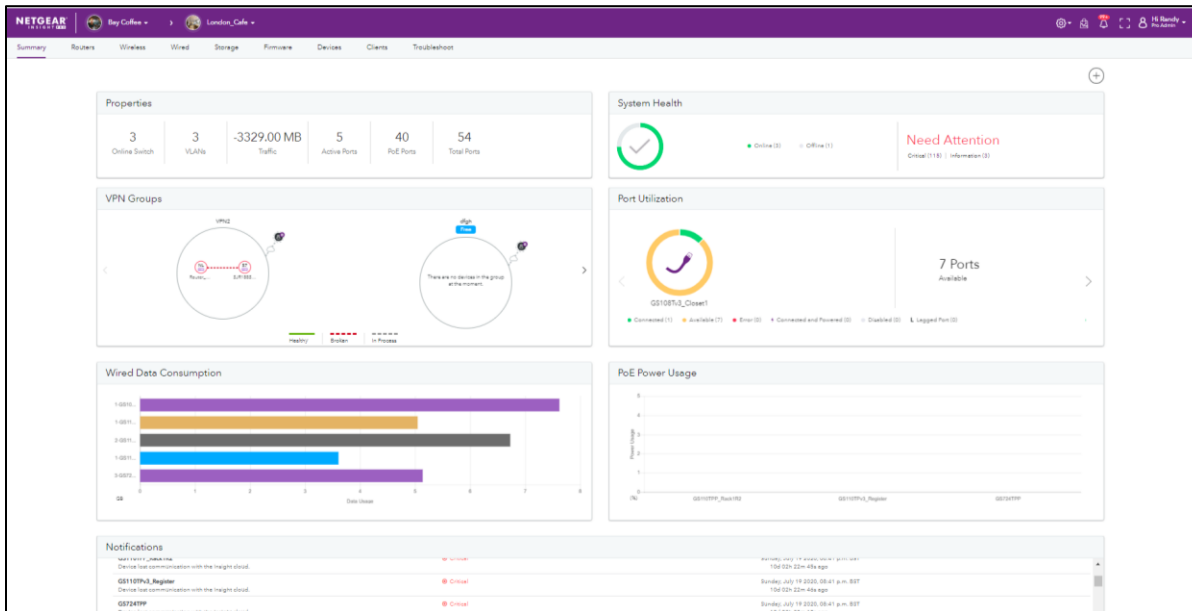
- Herramienta de gestión para configurar y gestionar de forma remota un grupo de dispositivos

- Gestión de dispositivos

- Mobile Hotspot - M1 and M5
- Wireless Routers fijos y sistemas

- Perfil de dispositivo

- Configuración predeterminada: establecida por el administrador
- Parámetros locales: establecidos por superusuario
- Estado e informes: visible para el usuario
- Status de dispositivo
- Operador, localización, potencia de la señal, estatus online, nivel de batería, dispositivos conectados, etc.



Smart Switches con Insight

GS108Tv3



8-Port Gigabit Ethernet
Smart switch with 1 PD port

GS324T



24-Port Gigabit Ethernet
Smart Switch with 2
Dedicated SFP Ports

GS716TP | GS716TPP



16-Port Gigabit PoE+ Ethernet Smart
switch with 2 SFP Uplinks (180W)

16-Port Gigabit PoE+ Ethernet
Smart switch with 2 SFP Uplinks (300W)

1-Year Insight Subscription Included

MS510TXM | MS510TXUP



8-Port Multi-Gigabit/10G
Ethernet Smart Switch with 2
SFP+ Ports

8-Port Multi-Gigabit/10G
Ethernet Ultra60 PoE++ Smart
Switch with 2 SFP+ Ports (295W)

1-Year Insight Subscription Included

Smart Switches con Insight

GS724TPv2 | GS724TPP

24-Port Gigabit PoE+ Ethernet Smart Managed Pro switch with 2 SFP Uplinks (190W)

24-Port Gigabit PoE+ Ethernet Smart Managed Pro switch with 2 SFP Uplinks (380W)



GS728TPv2* | GS728TPPv2*

28-Port Gigabit PoE+ Ethernet Smart Managed Pro switch with 4 SFP Uplinks (190W)

28-Port Gigabit PoE+ Ethernet Smart Managed Pro switch with 4 SFP Uplinks (380W)



1-Year Insight Subscription Included

GS752TPv2* | GS752TPP*

52-Port Gigabit PoE+ Ethernet Smart Managed Pro switch with 4 SFP Uplinks (380W)

52-Port Gigabit PoE+ Ethernet Smart Managed Pro switch with 4 SFP Uplinks (760W)



1-Year Insight Subscription Included

¿Por qué añadir Insight a estos switches Smart?



Notificaciones
rápidas y
autónomas



Bajo TCO



Funcionalidades
PoE y de
seguridad
gestionables
remotamente



Garantía
LIFETIME
limitada

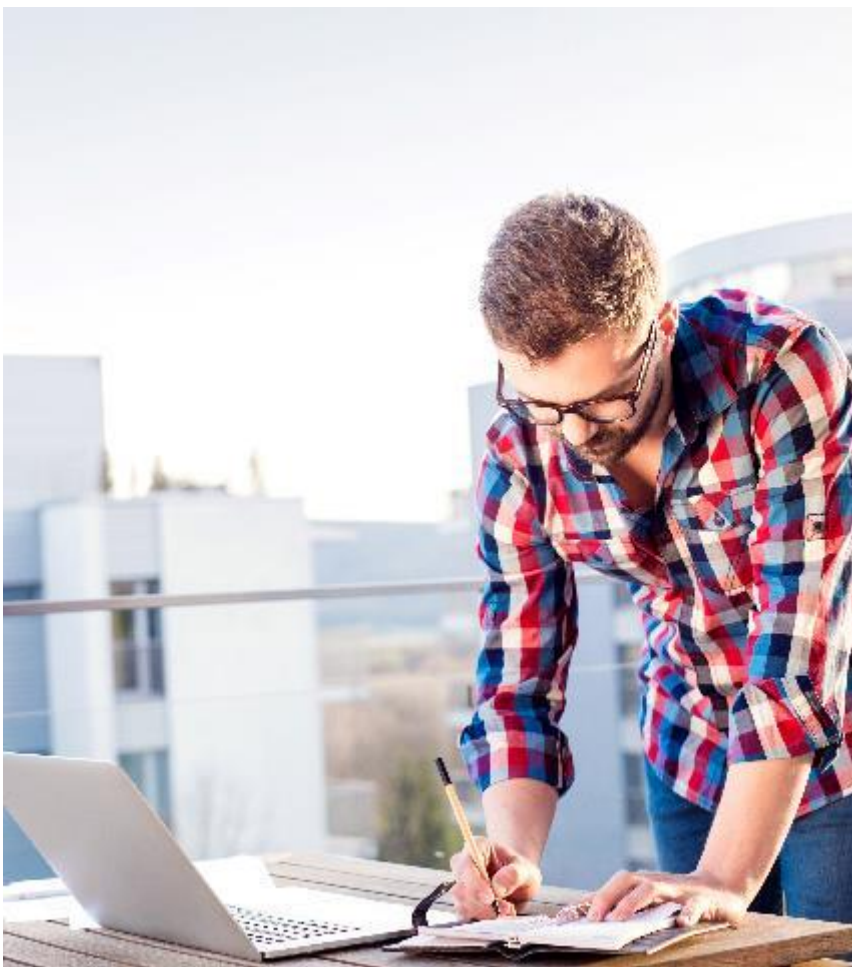


Gestión flexible
modo - Local
GUI o Cloud

Automatización. Eficiencia. Escalabilidad

Función	Instalación tradicional	Usando Insight Pro
Network Location Setup	8+ hours	10 - 15 minutes
Device Registration	~15 minutes per device	1-2 seconds
Device Setup & Configuration	1-3 hours per device	<10 minutes
Network VLAN Setup	60 - 120 minutes	<10 minutes
Network Level Setting (wired + wireless)	60 - 120 minutes	<10 minutes
Firmware Updates	~15 minutes per device	0 minutes - No Touch Required
Remote Monitoring	N/A Or security risk with complex access via open ports	24/7 anytime, anywhere
Custom Reports	>120 minutes	<10 minutes
Troubleshooting	2+ hours	<5 minutes
Remote Support	1+ hour	24/7 access from mobile app

Enabling Remote-Managed Work from Home with NETGEAR Insight



Business Challenges in the Post Covid-19 Era

- Support Work-from-Home
- Same Level of Productivity
- Productivity Starts with Communication and Data Access
- Easy, Secure, Reliable Home Networking?
- Affordable per Employee Expenses





**Empower Remote Employees.
Manage Network Extension.**

Keys to Successful Remote Workforce Network Management

1

STANDARDIZE

Apply consistent standard of policy, security and quality across each employee.

2

OPTIMIZE

Optimize for unified, centralized bulk deployment.

3

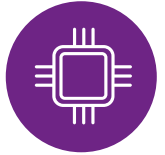
VISUALIZE

Gain 24/7 visibility and control to proactively monitor and manage across all employee networks with ability to easily troubleshoot.

Insight Enables Remote Workforce



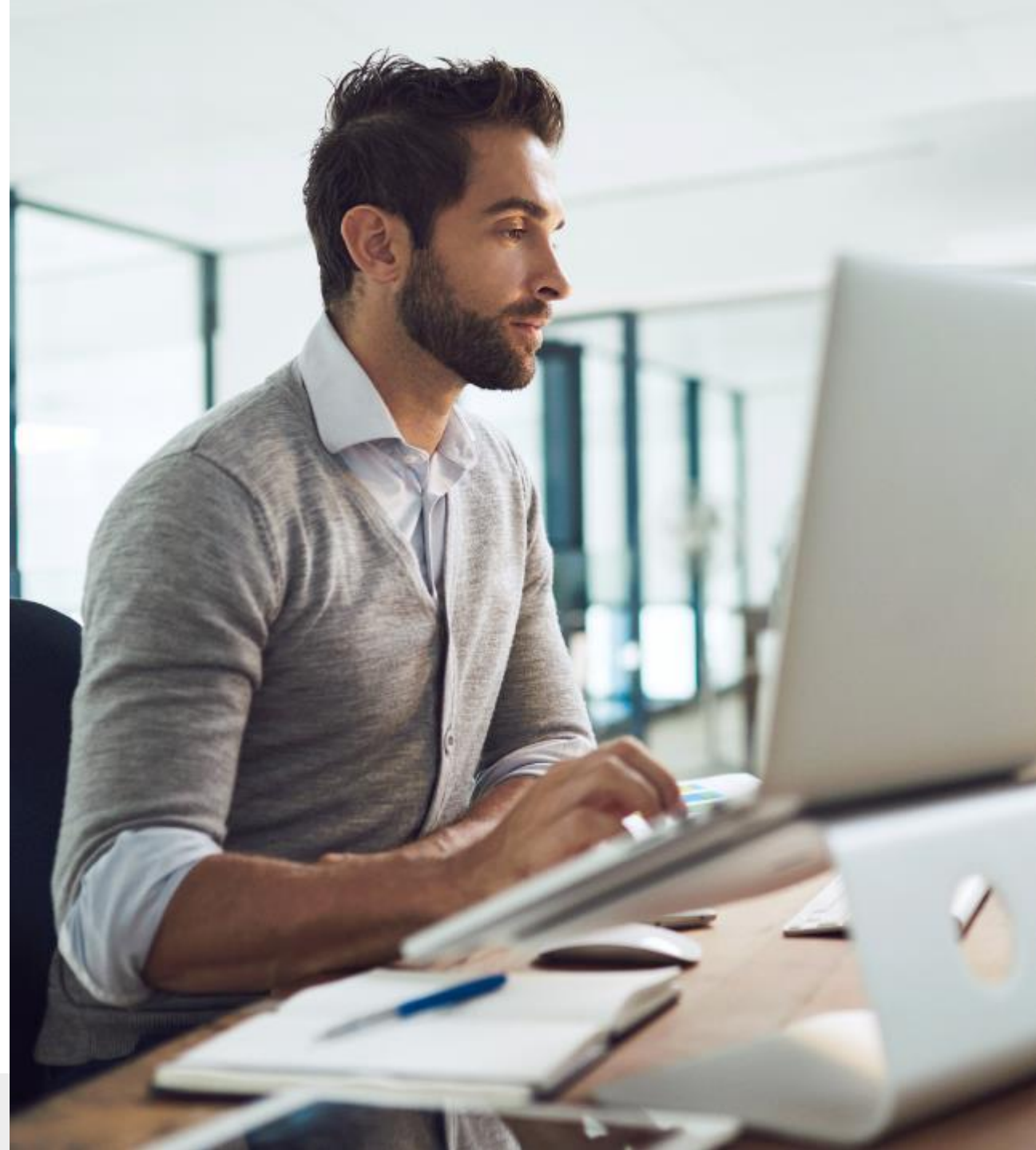
Insight makes it possible



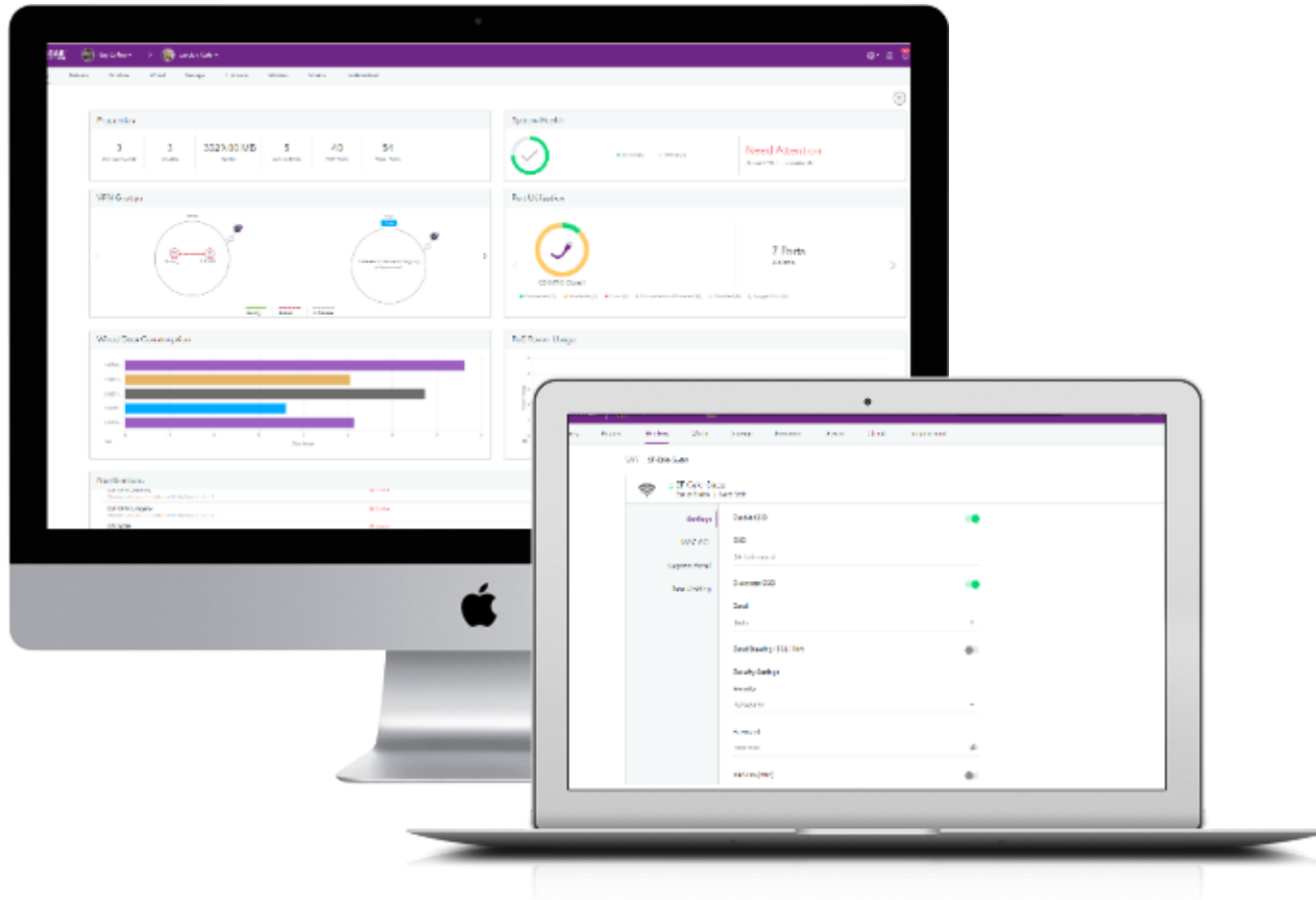
Multiple hardware platforms available



Ready to meet the next BIG business challenge – Support Work from Home



NETGEAR Insight – Simplified Remote Wireless Management



- Instant discovery and setup of your Insight managed NETGEAR WiFi 5 & WiFi 6 APs
- Centralized configuration of wireless networks, SSID, WiFi security and roaming policies, VLAN tie-ins with switches, ports and PoE, for efficient and secure networks
- Remote monitoring and simplified ongoing firmware management of your Insight Managed devices with performance dashboards, alerts and troubleshooting features including remote reboot
- Troubleshooting made easier with remote access to all networks
- Single pane-of-glass multi-device, multi-network, multi-site and multi-tenancy remote monitoring and notifications



NETGEAR Switches

From Unmanaged to Fully Managed

NETGEAR PoE switches

AV over IP switches

NETGEAR®
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Largest Switch Portfolio



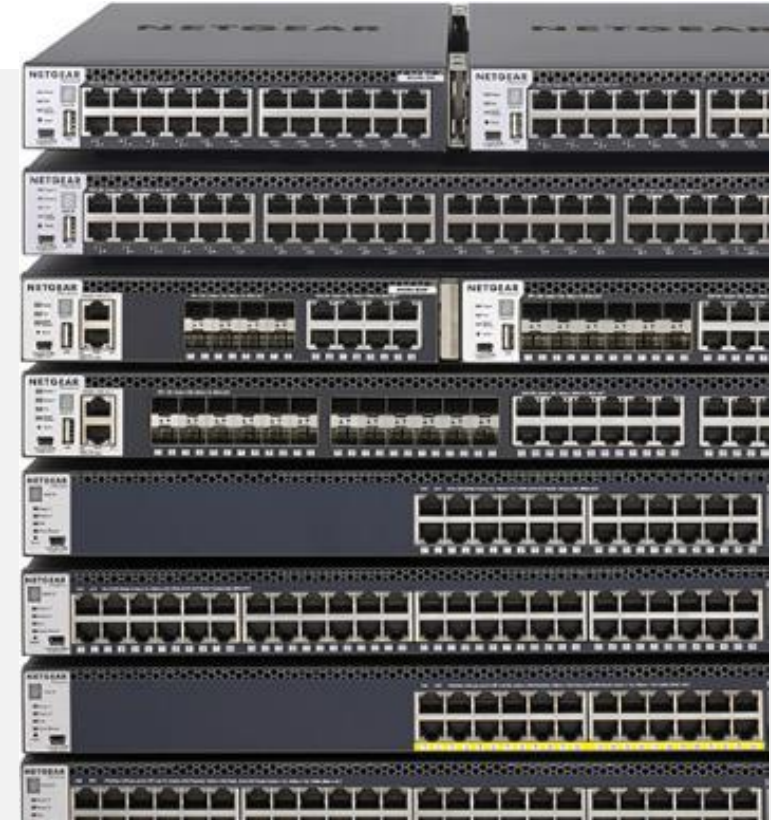
Unmanaged

#1 market share, from 5 to 50 ports, 1G, Multi-gig, 10G models, largest PoE/PoE+/Ultra PoE++ selection in the market, plug-and-play



Plus & Smart Switches

From basic L2 to Lite L3 management, Cloud Management options, most PoE/PoE+/Ultra PoE++ choices in the market, 1G, Multi-Gig, 10G, SFP or SFP+



Fully Managed

8 to 96 ports, Copper, Fiber, 1G, 10G, 40G, multi-gig, fully stackable

Differences in NETGEAR switches



Unmanaged

- Plug-and-play
- Offload WiFi
- PoE power
- Energy efficient
- Market-leading
- No management
- Silent



Plus

- Plug-and-play
- Easy-to-configuration advanced features
- Traffic prioritization (QoS)
- Network separation (VLANs)
- Maintenance & troubleshooting (port mirroring)
- PoE power and controls
- Energy efficient



Smart

- L2/L2+/Lite L3 Management features
- Local or Remote management
- Zero-touch deployment (with Insight)
- Increased Security (ACL, PoE Controls, failover)
- Larger network with core and edge
- Higher bandwidth



Fully Managed

- Heavy traffic
- Fiber core network (longer distance, less interference)
- Expand network at reasonable cost
- L3+ features for routing
- Failover redundancy
- Scalability
- Single GUI for core and edge
- 1G, 10G, 40G, 100G speeds

PoE Switches and applications

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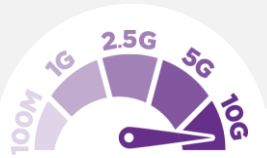


Most comprehensive PoE Portfolio in the market

NETGEAR BUSINESS AND POE

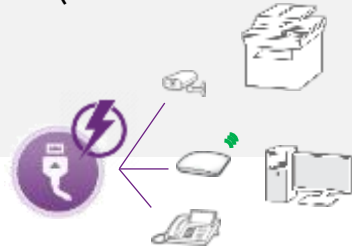
All Network
Speeds

(up to 10G)



Large range of
PoE/PoE+/PoE++
Power

(47W to 2880W)



Across all
categories

(Unmanaged to Fully
Managed)



Advanced
Features and
Innovations

(eg. PoE Scheduling,
Remote PoE on/off,
IPv6 support)



Insight

All port counts

(from 2 to 48)



PoE Applications

The 3 Big Applications:



AC WIFI



IP PHONES



IP CAMERAS

Additional Apps:



LED LIGHTS



POS READERS



CONFERENCE DEVICES



DOOR LOCKS



AUDIO SPEAKERS



IPTV DECODERS



THIN CLIENTS



**BIOMETRIC
ACCESS PANELS**

PoE Advanced controls

Automatic PoE allocation by detected-class or power draw

- On Unmanaged PoE switches

Advanced PoE Controls & Scheduling

- On Smart Plus & Smart Pro switches

Remote PoE monitoring, management, resets, and scheduling using NETGEAR Insight

- On select Smart Pro switches

NETGEAR FlexPoE Feature with upgradable PoE budgets with optional power adapters

- On select PoE switches



NETGEAR FlexPoE

Challenge:

- Customer does not know how much PoE he needs or has a limited financial budget, so purchases a lower-powered switch
- Now has more PoE devices but not enough power in his switch to support them

Typical Solution (Other Switch Vendors):

- Purchase an entirely new PoE switch with a higher power budget

Better Solution:

- Industry-first NETGEAR FlexPoE switches & optional power adapters
 - Available on select NETGEAR PoE switches
 - Allows you to upgrade your switch PoE budget with new power adapters without replacing the entire switch



Upgrade with larger optional power adapter



The Evolution of PoE Standard

802.3af PoE

802.3at PoE+

802.3bt PoE++

IEEE Standard	802.3af	802.3at	802.3bt Type 3	802.3bt Type 4
Year	2003	2009	2019	2019
Max Power	15.4W/port	30W/port	60W/port	90W/port
PoE Class	1-3 (PoE)	4 (PoE+)	5-6 (PoE++)	7-8 (PoE++)
NETGEAR Nomenclature	PoE	PoE+	Ultra60 PoE++	Ultra90 PoE++
Applications	IP phone, video phone, IP camera, Wireless AP	PTZ IP camera, dual band wireless AP	LED lighting, Audio Speakers, AV encoders, PTZ high-end camera, high-end WiFi 6 AP	

NETGEAR Ultra60 PoE++

- Follow the ratification of **IEEE 802.3bt PoE standard**
- Backward-compatible with other non-standard PoE++ solutions (UPoE, pre-bt, etc)
- Offer up to 60W to each Ultra60 PoE++ Ethernet port
- Identify it as Ultra**60** PoE++ to clearly specify the maximum power per port (since PoE++ can be from 60W to 100W)
- Announced **the first cloud managed NETGEAR Ultra60 PoE++ switches** at CES 2020



NETGEAR Ultra60 PoE++

Benefits of Deploying

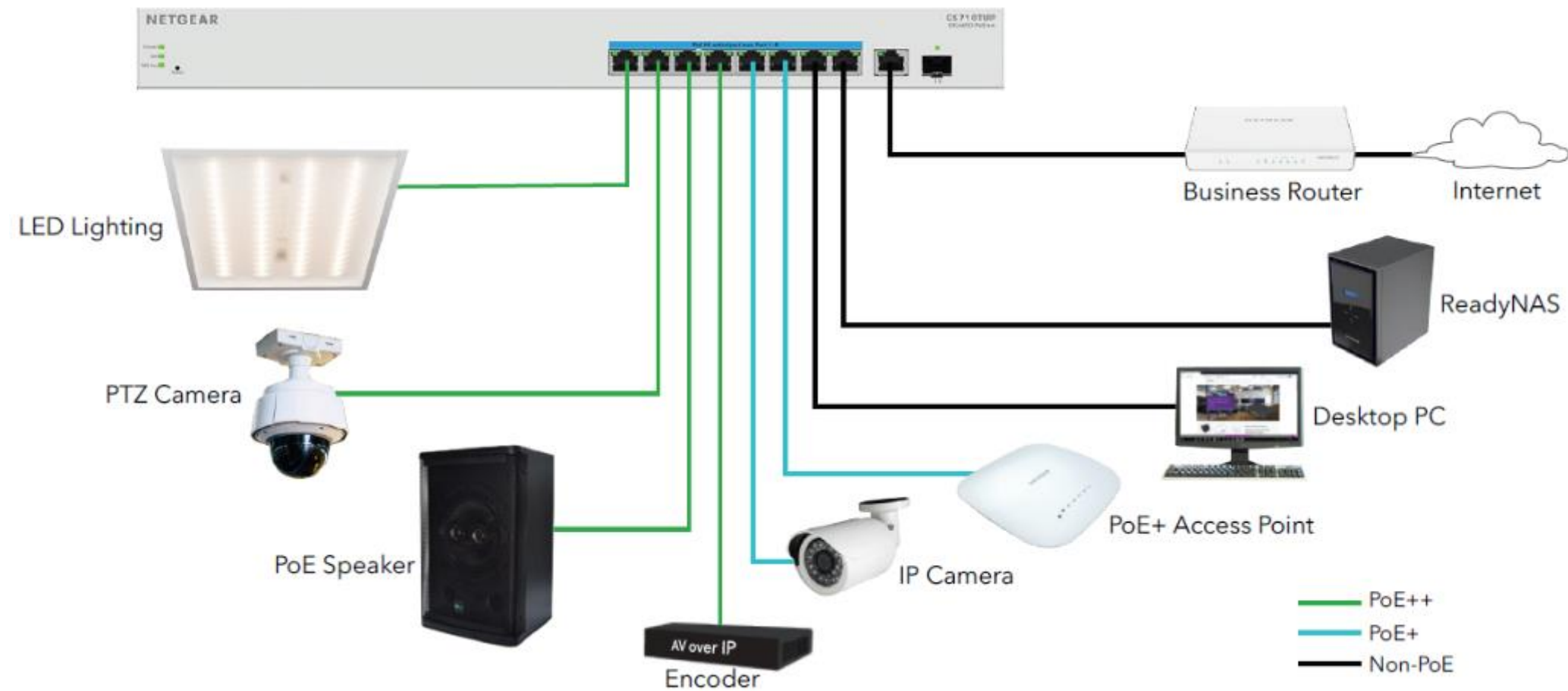
- Upgraded PoE power per port
 - Get more than 30W/port that 802.3at PoE+ can provide
 - Future-proof the IT network
- Industry's First Uninterrupted PoE++
- Lower infrastructure & installation costs
 - Fewer, separate power adapters are needed and only one cable run is required rather than two
- **Reliability**
 - Eliminate the chance of human interference or malfunction
 - Each PoE port operates power independently
- **Flexible compatibility**
 - Backwards compatible to 802.3af/802.3at PoE standards
 - Compatible with Pre 802.3bt standard/UPoE power devices
- Remote/cloud support with NETGEAR Insight on Smart Managed Pro switches



NETGEAR 10-Port Gigabit Ethernet Ultra60 PoE++ Smart Managed Pro Desktop Switch with 4 ports PoE++, 4 ports PoE+, 1 Gigabit Non-PoE Copper and 1 SFP port (GS110TUP)

NETGEAR 10-Port Gigabit Ethernet Ultra60 PoE++ Smart Managed Pro Rackmount Switch with 8 ports PoE++, 1 Gigabit Non-PoE Copper port and 1 SFP (GS710TUP)

Deploying NETGEAR Ultra60 PoE++ Smart switches



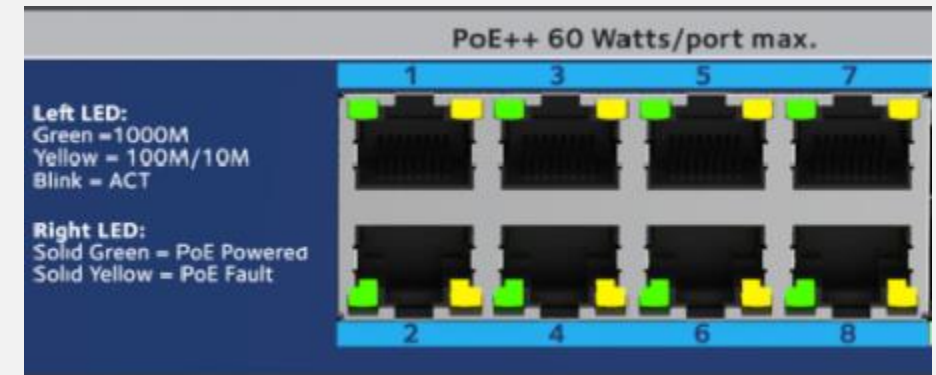
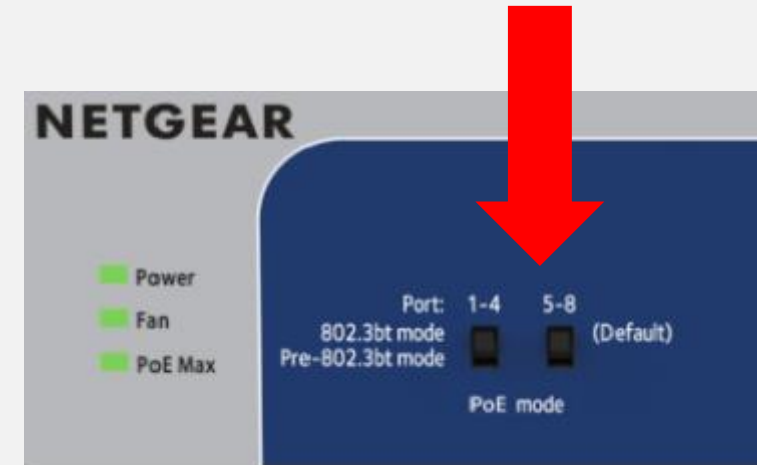
PoE mode selector

How Does the PoE Mode work?

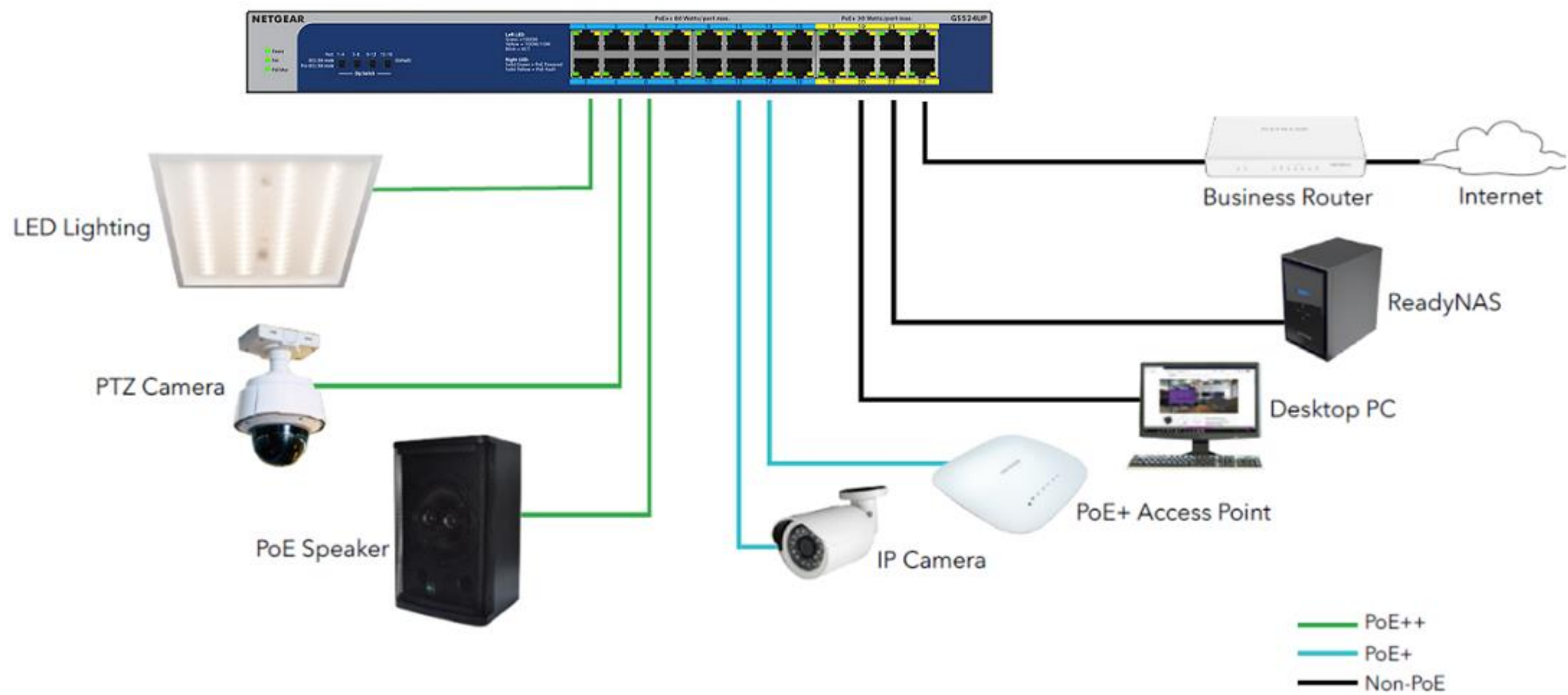
- DIP Switch is used to enable pre-802.3bt compatibility (by default uses 802.3bt standard)
- Pre-bt devices were created before 802.3bt Standard was agreed to and ratified. Those products are not compatible with the new 802.3bt Standard. If customers want to use their pre-bt device(s), they can use it using our GS516UP/GS524UP by changing the PoE Mode. Note: This affects the ports in groups of 4.

For Pre-802.3bt devices connected to the switch:

- If the switch is set to standard 802.3bt mode, it will not deliver >30W of power to pre-802.3bt PDs. Therefore, it will not power up.
- User can select Pre-bt mode to enable 60W of power to be delivered.
- For 802.3bt Standard devices connected the switch:
 - If the switch is set to 802.3bt mode (default) the device will receive up to 60W of power (PoE++).
 - If the switch is set to Pre-802.3bt mode, the device will only receive 30W of power (PoE+). Therefore, it will not power up.



Deploying NETGEAR Ultra60 PoE++ Unmanaged switches



NETGEAR Wireless

Business Essentials WiFi

Orbi Pro Mesh WiFi

Cloud Managed Access Points

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NETGEAR Business WiFi portfolio



Business Essentials

- Stand-alone, Single Access Point
- Budget friendly
- Easy to set up, maintain
- Latest technology



Orbi Pro Mesh Systems

- High performance
- Large coverage
- Home and work use
- Business level security



Cloud Managed Access Points

- Highly reliable, robust, secured
- Scalable, flexible
- High performance
- Cloud and local management



WiFi 6 Business Essentials

WAX202 | WAX204 | WAX206 | WAX214 | WAX218



Business Essentials



Step 1: Connect “Essentials” to Broadband Box

Step 2: Connect to unique SSID

Step 3: login to [//routerlogin.net](http://routerlogin.net)

- Create a private WiFi without touching the broadband box
 - No IP address to locate
 - No app to download, no subscription
 - No touching of your existing, running broadband device

Business Essentials portfolio

- Standalone Access Point
- Managed by admin GUI
 - No app needed
 - No subscription needed
- Ideal for small office, retail



WAC104
AC1200 Dual Band
4x GbE



WAC124
AC2000 Dual
Band, 5x GbE

WiFi 5



WAX206
AX3200 Dual
Band, 4x GbE



WAX204
AX1800 Dual
Band, 5x GbE



WAX202
AX1800 Dual
Band, 3x GbE

WiFi 6



WAX218
AX3600 Dual Band,
2.5GbE, PoE



WAX214
AX1800 Dual Band,
GbE, PoE

Business Essentials WiFi

with Local Management

	WAX202	WAX204	WAX206	WAX214	WAX218
Form Factor	Desktop	Desktop	Desktop	Ceiling/Wall Mount	Ceiling/Wall Mount
Speed Grade	AX1800	AX1800	AX3200	AX1800	AX3600
Radio	2.4GHz: 2x2, 600Mbps 5.0GHz: 2x2, 1,200Mbps	2.4GHz: 2x2, 600Mbps 5.0GHz: 2x2, 1,200Mbps	2.4GHz: 4x4, 800Mbps 5.0GHz: 4x4, 2,400Mbps	2.4GHz: 2x2, 600Mbps 5.0GHz: 2x2, 1,200Mbps	2.4GHz: 4x4, 1,200Mbps 5.0GHz: 4x4, 2,400Mbps
Ethernet	Uplink: GbE Downlink: 3x GbE	Uplink: GbE Downlink: 4x GbE	Uplink: 2.5GbE Downlink: 4x GbE	GbE, PoE+	2.5GbE, PoE+
# of SSID	3	3	3	4	4
# of Client Device Support	64	64	64	128	128
Max # of Concurrent Device Support	40	40	60	40	75
Coverage Area	1,200 square feet	1,500 square feet	1,800 square feet	1,500 square feet	2,000 square feet
MAP in U.S.	\$99	\$129	\$169	\$119	\$224
RRP in Europe	€99, £89	€129, £119	€169, £149.99	€119, £109	€229, £209
Launch	June, 2021	Q4'2020	June, 2021	Q1'2021	Q1'2021

A collage of four images showing the Orbi Pro WiFi 6 router in different home environments. The router is a white, hexagonal-shaped device with a black top and bottom. In the first image, it is mounted on a white wall. In the second, it is mounted on a light green wall above a sink. In the third, it sits on a white surface next to a vase of flowers. In the fourth, it sits on a white surface next to a green desk. The text "Orbi Pro WiFi 6" is overlaid in the center.

Orbi Pro WiFi 6

Orbi Pro – Absolute Leader in Professional WiFi Systems

- **Fastest WiFi**
- **Large coverage area**
- **High device capacity**
- **High security**
segmentation
- **Office in a box**



For the latest devices and apps

Blazing fast everywhere

Room for growth

Secure WiFi Zones, network

All-in-one router, WiFi and switch

The most advanced security for a home business

Separate and prioritize
devices securely
across 4 networks

VLAN-SSID

Network isolation for Work,
Family, Guest and IoT

Network segmentation

Create separate local area
networks (LANs) on an IP level,
across both WiFi and Ethernet
ports

Client isolation within the same VLAN/SSID

- Total privacy and security
- Default for Guest WiFi



Orbi Pro WiFi 6

The Absolute Leader

- **New Edition of Highly Popular Orbi Pro**
 - The fastest WiFi money can buy, it's PRO, because YOU are a PRO.
- **Better** WiFi for Business, **Everywhere**
 - **Faster** - 2x performance of "Gen 1"
 - **Best Range** - Larger coverage area
 - **Capacity** - 4x more device capacity
 - **Safe & Secure** - Major upgrade in network security
- Powerful & Sophisticated - Best Business WiFi 6
- Don't Compromise The Things That Matter Most





Orbi Pro WiFi 6 Ideal Customer Profile

- Small Businesses
- High-Demand Homeowners
- Prosumers
- Bed & Breakfast Inns & Airbnb

- Retail Outlets
- Restaurants
- Professional Services
- Educational Centers

Orbi Pro Family

Orbi Pro WiFi 5

High
Performance



SRK60

AC3000 Per Unit
4x4 1.7Gbps Dedicated Backhaul
5x GbE in router and satellite units
\$399 for router + satellite
Support up to 6 satellites

Performance

Orbi Pro WiFi 6

SXK80

AX6000 Per Unit
4x4 2.4Gbps Dedicated Backhaul
4x GbE + 1x2.5GbE
\$769 for router + satellite
Support up to 6 satellites



SXK50

AX5400 Per Unit
4x GbE in routers and satellite units
\$449 for router + satellite
Support up to 4 satellites



SXK30

AX1800 Per Unit
4x GbE in routers and satellite units
\$299 for router + satellite
Support up to 4 satellites



Orbi Pro Family Comparison



	Orbi Pro WiFi 6 SXX80	Orbi Pro WiFi 6 AX5400 SXX50	Orbi Pro WiFi 6 Mini SXX30	Orbi Pro SRK60
Speed Grade per Unit	AX6000	AX5400	AX1800	AC3000
Radio	2.4GHz: 4x4, 1,200Mbps 5.0GHz Low: 4x4, 2,400Mbps 5.0GHz High: 4x4, 2,400Mbps	2.4 GHz : 573 Mbps 5 GHz Lo: 2402 Mbps 5 GHz Hi: 2402 Mbps	2.4GHz: 2x2, 600Mbps 5.0GHz: 2x2, 1,200 Mbps	2.4GHz: 2x2, 400Mbps 5.0GHz Low: 2x2, 900Mbps 5.0GHz High: 4x4, 1700
Ethernet	1x 2.5GbE 4x GbE	1x GbE 3x GbE	4x GbE	5x GbE
# of SSID	4x SSID with VLAN Tie-in	4x SSID with VLAN Tie-in	4x SSID with VLAN Tie-in	4x SSID with VLAN Tie-in
Max # of Satellites	6	4	4	6
Max # of Client Devices	256	256	256	256
Max # of Concurrent Client Devices	100	75	40	40
Coverage Area per Unit	3,000 square feet	2,500 square feet	2,000 square feet	2,500 square feet
Integrated Plus Switch with VLANs	Yes	Yes	Yes	No



Insight Managed WiFi 6 Access Points

WAX610 | WAX610Y | WAX620 | WAX630



Indoor and Outdoor Access Points

WAX630 | WAX620 | WAX610 | WAX610Y

- **WiFi 6 – 5.0GHz and 2.4GHz bands**
 - Many “dual band” WiFi 6 access points have WiFi 6 on 5GHz only, thus limiting throughput. **Our products have both** and are **much better!**
- **2.5GbE – much faster than most WiFi 6 APs with only 1GbE**
- **Ideal with 802.11at PoE+ switch**
 - **Also operational** with **802.11af PoE** @ 60% throughput.
Universal PoE switch compatibility!
- WPA/WPA2/WPA3 security
- **Compatible** with **WAC540/564** for **Instant Mesh** (shared band between backhaul and devices)
- WAX630- **Indoor**, works **with PoE** (WAX630PA model with **power adapter included**, US only)
- WAX620 - **Indoor**, works **with PoE** (WAX620PA model with **power adapter included**, US only)
- WAX610 - **Indoor**, works **with PoE** (WAX610PA model with **power adapter included**, US Only)
- WAX610Y - **Outdoor; PoE only**



WAX630



WAX620



WAX610



WAX610Y

Insight Managed WiFi Access Points

WiFi 5

WiFi 6

Ultimate
Performance



WAC540
AC3000 Tri-Band
1GbE or 1.7Gbps WiFi Backhaul



WAX630
AX6000 Tri-Band
2.5GbE Backhaul

High
Performance



WAX620
AX3600 Dual Band
2.5GbE Backhaul

Performance



WAC510
AC1300 Dual Band
1GbE Backhaul



WAX610
AX1800 Dual Band
2.5GbE Backhaul

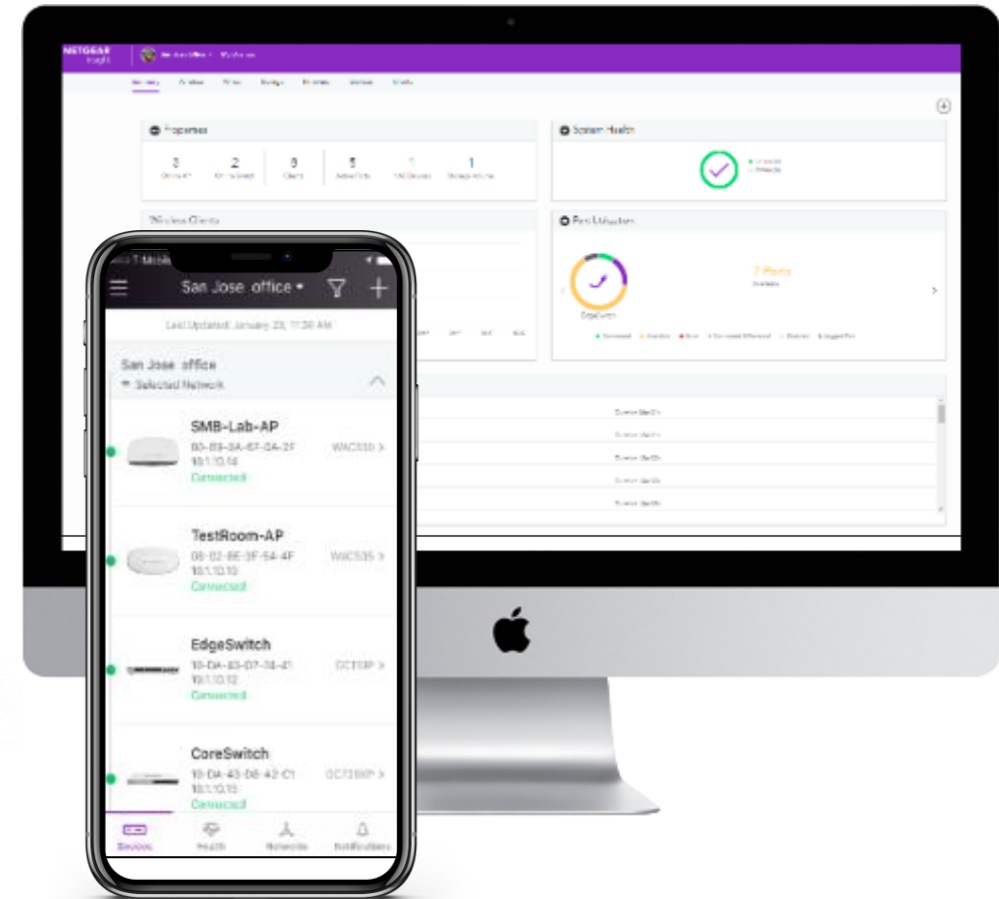
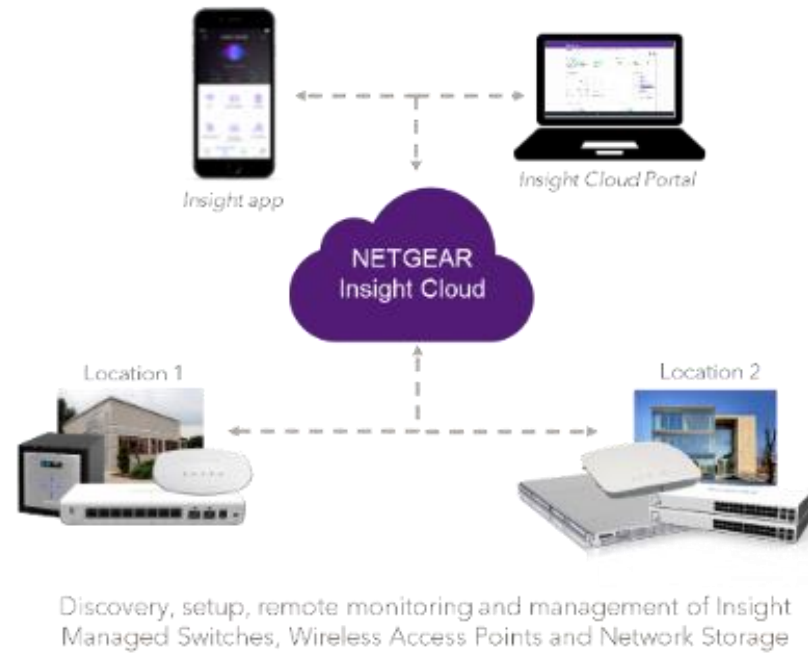
Insight Managed WiFi 6 Access Points



	WAX610	WAX620	WAX630
Product Name	AX1800 Dual Band PoE Multi-Gig Insight Managed WiFi 6 Access Point	AX3600 Dual Band PoE Multi-Gig Insight Managed WiFi 6 Access Point	AX6000 Dual Band PoE Multi-Gig Insight Managed WiFi 6 Access Point
Speed Grade	AX1800	AX3600	AX6000
Form Factor	Wallmount/Ceiling mount	Wallmount/Ceiling mount	Wallmount/Ceiling Mount
Radio	2.4GHz: 2x2, 600Mbps 5.0GHz: 2x2, 1,200Mbps	2.4GHz: 4x4, 1,200Mbps 5.0GHz: 4x4, 2,400Mbps	2.4GHz: 1200Mbps 5GHz -L: 2400 Mbps 5GHz-H: 2400 Mbps
Ethernet	2.5GbE, PoE+	2.5GbE, PoE+	2.5GbE, PoE+
# of SSID	8x SSID per radio 16x total available	8x SSID per radio 16x total available	8x SSID per radio 16x total available
# of Client Device Support	200	256	600
Max # of Concurrent Device Support	50	75	100
Coverage Area	2,500 square feet	3,000 square feet	3,500 square feet

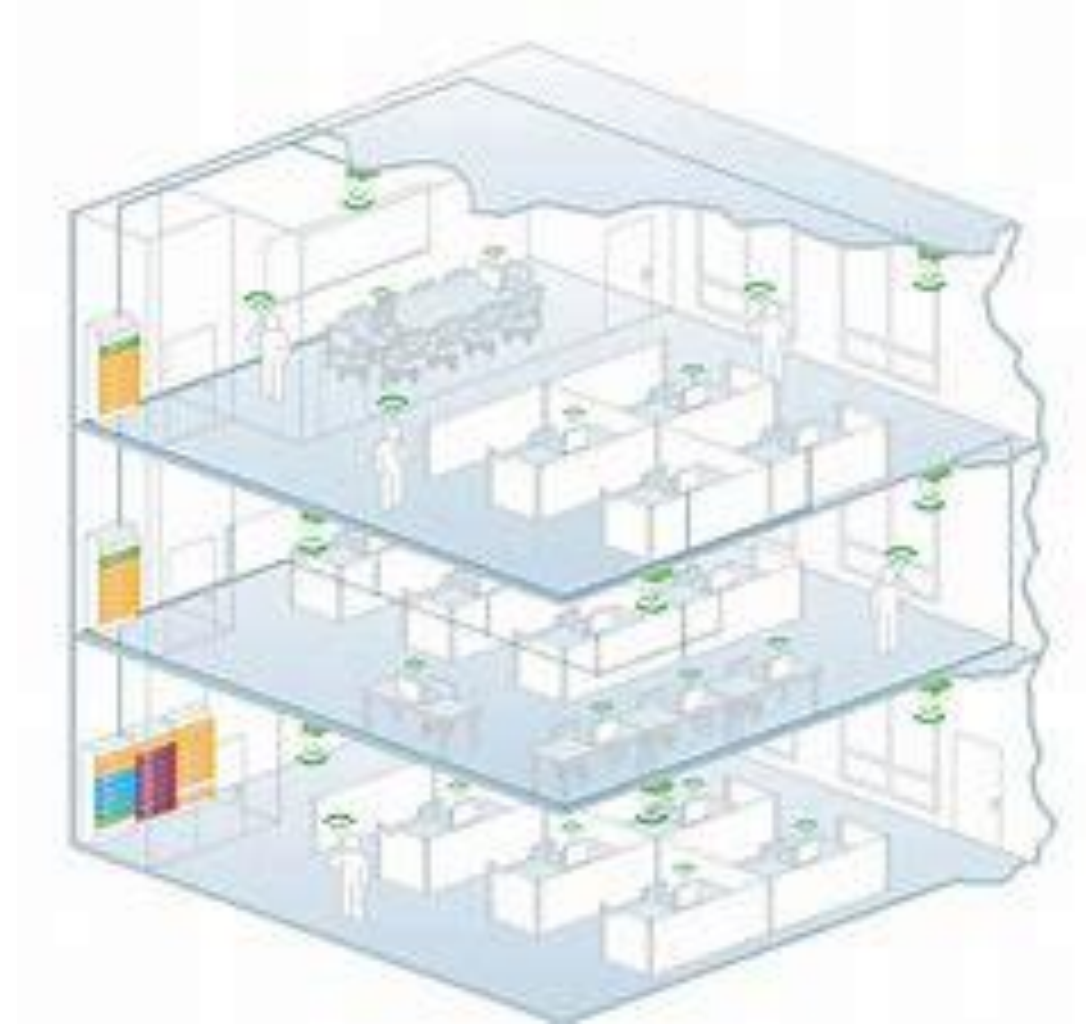
The Best Possible Management Experience with NETGEAR Insight

- Manage all your devices across multiple locations from a single management pane
- Centralize and simplify your management within a location
- Get a unified view of status across all your locations
- Access any location or device within a location with a simple tap or click
- Secure, Scalable & Safe



Insight for High Density Wi-Fi Deployment

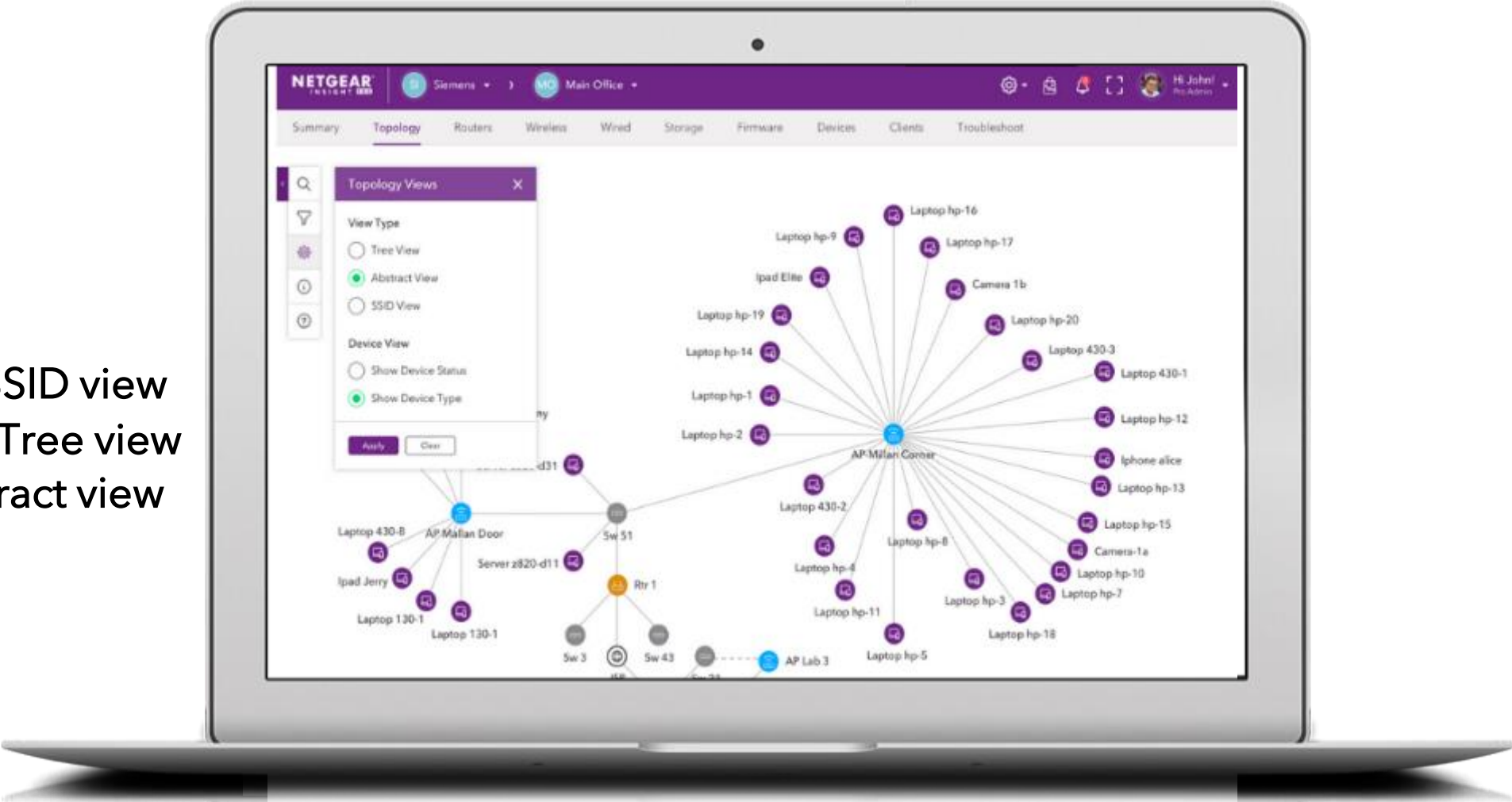
- High Density Wi-Fi supports larger deployments in SMB
- Ideal for:
 - 50-250 employee companies
 - Schools with multiple buildings / floors
 - Local government organizations
- New Insight Feature Highlights:
 - Load balancing for wireless network to support optimization
 - Full support for 802.11 k/v/r
 - Client/Network Isolation
 - Advanced Rate Selection
 - Client roaming history / report
 - Ensuring clients end-users devices laptops/mobile devices get good performance by monitoring their performance as they roam between access points



New in Insight 6.0: Topology Maps

New

SSID view
Tree view
Abstract view



WiFi 5 vs WiFi 6

	WiFi 5	WiFi 6	Ventajas
Rendimiento teórico máximo en radio 2x2	1.3 Gbps	1.8 Gbps	El aumento general del rendimiento aumenta la velocidad en los dispositivos de cliente
OFDMA y MU-MIMO	Solo enlace descendente	Enlace ascendente y descendente	El aumento de Uplink OFDMA y MU-MIMO, permite una mayor capacidad de usuario al enviar transmisiones en paralelo
Frecuencia	5GHz para WiFi 5	2.4GHz y 5GHz para WiFi 6	El uso de 2.4GHz aumentará la velocidad significativamente
Modulación	256QAM	1024QAM	Una modulación más alta proporciona un esquema que significa un mayor rendimiento y capacidad de datos
BSS Coloring y TWT	No	Si	Permite que la red WiFi transmita el tráfico de manera efectiva a múltiples dispositivos en áreas congestionadas
Seguridad	WPA / WPA2	WPA / WPA2 / WPA3	La introducción de WPA3, proporciona al cliente un cifrado de seguridad de punto final más seguro y actualizado

Insight Instant Captive Portal

For Insight Managed Wireless devices

NETGEAR®
BUSINESS



Captive Portal Value



VARs

Sell advanced features with WiFi to their customers and increase revenue



Visitors

Get high quality, free WiFi guest access at any business



Business owners

Get visibility on their users, offer advanced & secure guest WiFi to their visitors

Instant Captive Portal Advantages



For Businesses

- A marketing tool that requests key information from the visitors that allows businesses to personalize ads.
- Enhances business brand image and credibility through professional portal and customizable settings.
- Increase customer experience with public WiFi.
- Set up captive portal in minutes while having maximum flexibility to achieve better customer interaction.
- Get a log of all WiFi accesses for a whole year for traceability and security



For Resellers

- Rapid setup and deployment of a captive portal, with professional look-and-feel.
- Continuous cloud and data analytics support for the customers to capitalize on the WiFi service.
- Monitor and manage your customer's network through
- Receive recurring revenue from setting up the NETGEAR Instant Captive Portal as a service.
- One-year WiFi log storage availability for legal compliance in some countries.

Comprehensive Features

Set up a professional NETGEAR portal within minutes, with features and capabilities similar to a nation-wide franchise.

Instant Captive Portal gives you:



Easy portal customization



Monetization with display ads



Social login with user analytics



Comprehensive dashboard



One-year user log storage



NETGEAR Insight Business VPN

NETGEAR®
BUSINESS

NETGEAR®
INSIGHT





New business trends and expectations

48%

U.S. labor force
are currently working
from home¹

70%

of surveyed CEOs/
Founders consider to
allow employees work
from home after office
reopen²

50%+

SMBs have more
than one location³

80%

survey respondents
show willingness to
pay for site-2-site VPN⁴

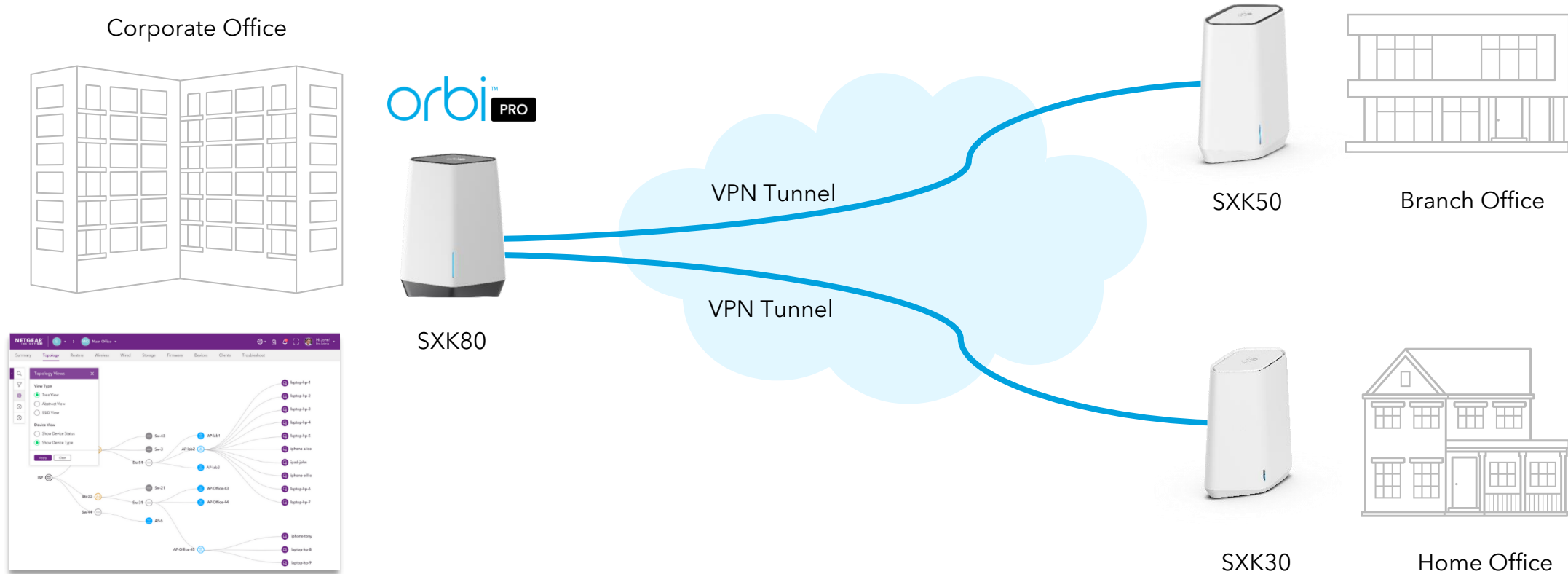
NETGEAR Insight Business VPN



NETGEAR Insight Business VPN allows two or more Orbi Pro units to form a site-to-site, site-to-multisite VPN, connecting the main office with branch and home offices, with a common SSID.

This industry unique design enables the employees to log-on to the company's secure network from the headquarters, the branch offices and the homes by simply connecting to the familiar company SSID.

WFH Orbi Pro with Insight + VPN



Remote Management
Dashboard for Corporate IT

Orbi Pro mesh system must be at
every end of the VPN tunnel

Pro AV / AV over IP

NETGEAR®
BUSINESS





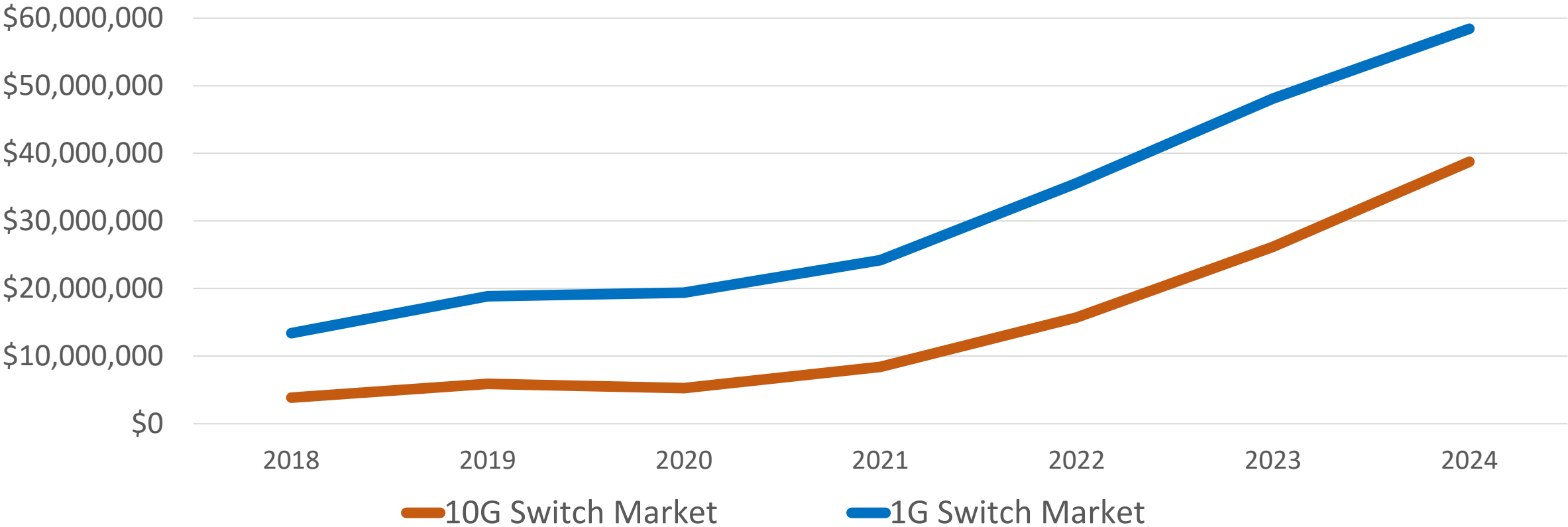
AV over IP

The transition from traditional AV distribution methods is accelerating!

Global Market Sizing

AV over IP

The transition from traditional AV distribution methods is accelerating!



Source: FutureSource Consulting's "Mapping The Low Latency AVoIP Market Nov 2020" Report

AV over IP Applications



SPORTS



EVENT VENUES



EDUCATION



MEDICAL OPERATING ROOMS



HIGH-END HOMES



RETAIL SIGNAGE



SMALL & MOBILE EVENT VENUES



CORPORATE OFFICES

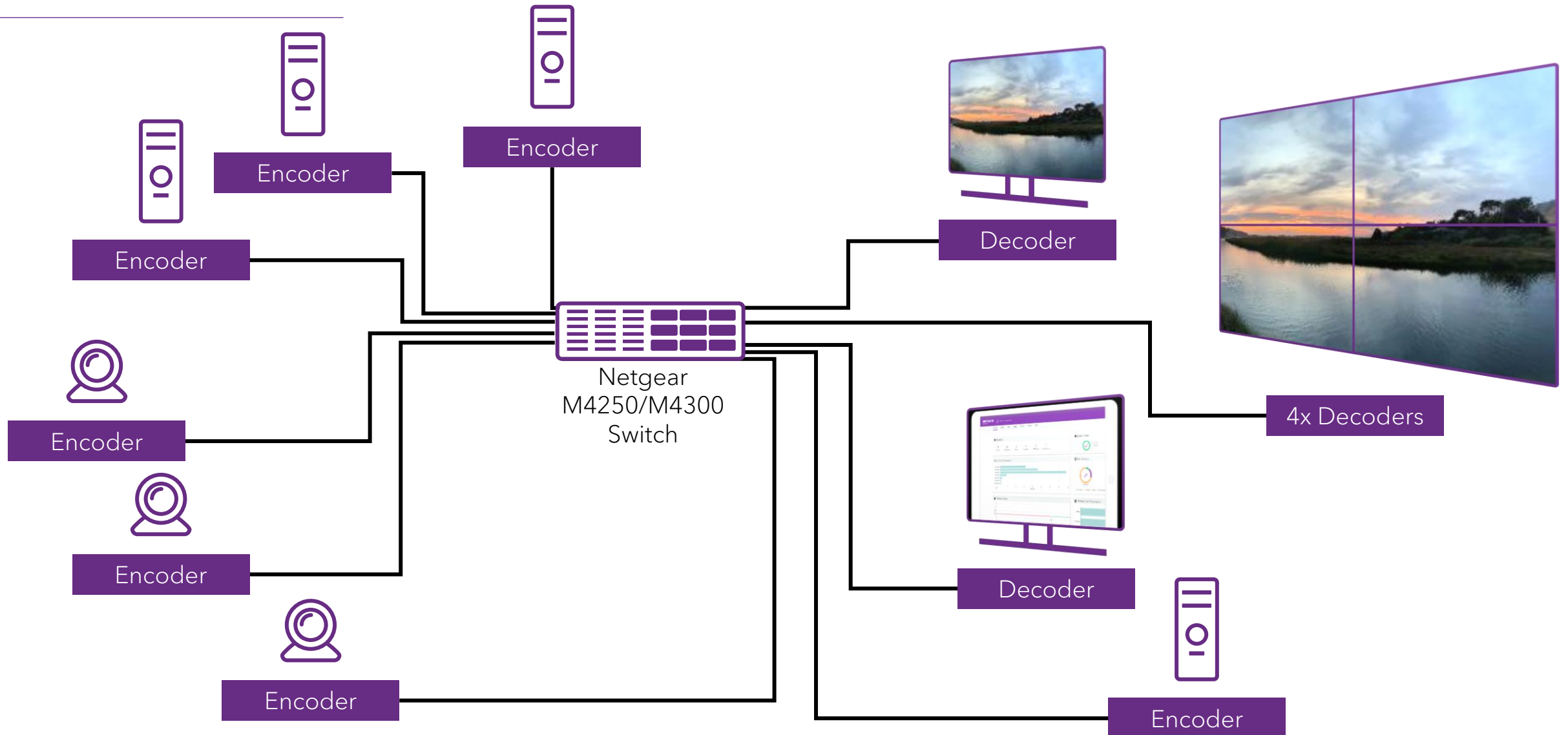


COMMAND & CONTROL CENTERS

Why Ethernet vs traditional matrix switching?

Traditional Matrix Switcher	NETGEAR Ethernet Switch Advantages	
<i>Challenges</i>	<i>Feature</i>	<i>Benefit</i>
Lack of scalability with fixed input & output ports	Each port may be treated as an input or an output, switches can be stacked	Greater flexibility & scalability
Costly replacement when upgrading to higher resolutions such as 4K	Ethernet ports support any resolution	Major cost and time savings as well as future-proofing
Not all HDBaseT equipment is interoperable	NETGEAR switches work with all AV over IP vendors	Less worry, easier integration
High cost per port	Lower cost per port	Cost effective - use your budget elsewhere

AV over IP Example



Types of AV over IP

- **Two dominant ‘camps’**
 - 1Gb
 - 10Gb
- **All AV over IP systems require a network switch**
- **Even 1Gb streams need the power of NETGEAR switches**
 - 10x 1Gb streams = 10Gb
 - 10x 10Gb stream = 100Gb
- **NETGEAR switches work with all types of AV over IP**



H.264
H.265
VC-2
JPEG2000



SDVoE
intoPIX
Pure3

NETGEAR - Founding member of the SDVoE Alliance



Software-Defined Video over Ethernet

Mission

- Define best practices and guidelines for AV over IP
- Ensure member products interact without technical issues
- Promote Ethernet to transport AV signals
- Educate the industry on no compromise, flawless AV over IP

Design principles

- True AV/IT convergence
- Zero-millisecond latency
- Flawless image quality
- Uncompressed 4K video

Steering Members



Founders: Christie, NETGEAR, Semtech, ZeeVee

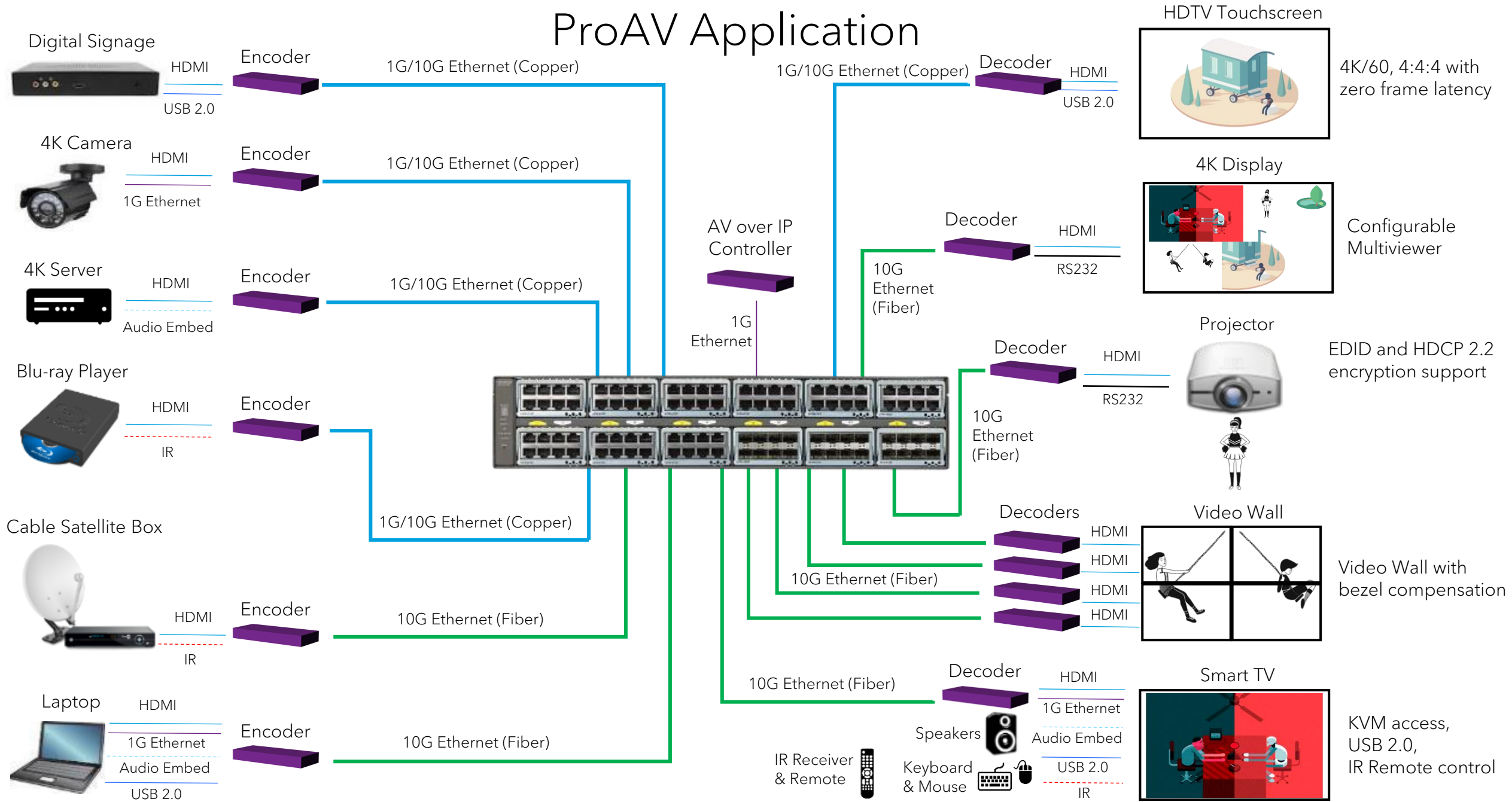
Contributing Members



Adopting Members



ProAV Application



Key Characteristics

- Engineered for AV over IP
- Unique hardware and software
- Exclusive features
- Wide range of port counts/types
- PoE, PoE+, PoE++ options

AV Line M4250



M4300



M4500



AV LINE



M4250 series AV Line



Switching engineered for AV over IP | **NETGEAR®**

Switches engineered for 1G AV over IP

Pre-configured for AV over IP out of the box

Dedicated AV GUI

Designed for an AV rack

- Status LED on the front
- All cabling on the back with additional status
- Reverse mounting if desired
- Threaded mounting holes

Software-controlled fan adjustments

PoE++ support on some models to power AV-over-IP endpoints

Audio profiles for Dante, Q-SYS, AES67, & AVB (AVB license sold separately)

Video profiles for NDI, SDVoE, and all major AV-over-IP manufacturers



Designed for AV over IP

Status LED in the front

All cabling plus additional status **in the back**



Front



Back



AV User Interface

Simple, AV GUI provides quick assignment of port-based profiles

For more configuration, traditional GUI and command line interfaces are also available.

Fans & Temperature

Fan 1	Active
Fan 2	Active
Fan 3	Active
sensor-1 Temperature	23 °C
Max Temperature	69 °C
Fan Mode:	☐ Off ☒ Quiet ☐ Cool

NETGEAR

Question/Help admin

Network Profiles

Configure | Network Profiles

M4250-12M2XF

Show Legends

Configured Profiles

Profile Name	Profile type	VLAN ID	IP Address	# of Assigned Ports	
Management VLAN	Data	1	0.0.0.0	6	⋮
Video NVX	Video	10	N/A	4	⋮
Dante Audio	Audio Dante	20	N/A	8	⋮

Profile Templates

Create AV Template

Audio Dante	To connect IP Audio Dante devices and their controller	⚙
Data	To connect PCs, sACN, Art-Net, MA/Net and other network devices.	⚙
Audio Q-SYS	To connect IP Audio Dante devices and their controller	⚙
Video with Q-SYS audio	To connect IP Video Encoders (TX), IP Video Decoders (RX), and their controller. Audio Q-SYS supported at the same time in the same VLAN. Supported devices include Crestron NVX, SxS AMX, Aurora Multimedia, Atoma, Dante Video, SDVoE & etc.	⚙

M4250 Product Portfolio



	M4250 Lower Port Count Models				
Model Name	M4250-10G2F-PoE+	M4250-10G2XF-PoE+	M4250-10G2XF-PoE++	M4250-12M2XF	M4250-16XF
Order Number	GSM4212P	GSM4212PX	GSM4212UX	MSM4214X	XSM4216F
10/100/1000 RJ45	10 ports	10 ports	10 ports		
100/1000/2.5G RJ45				12 ports (Multi-Gig)	
1G SFP	2 ports				
1G/10G SFP+		2 ports	2 ports	2 ports	16 ports
Form Factor	Full width				
PoE	8 ports PoE+ (125W)	8 ports PoE+ (240W)	8 ports PoE++ (720W)		

M4250 Product Portfolio



	M4250 Higher Port Count Models					
Model Name	M4250-26G4F-PoE+	M4250-26G4F-PoE++	M4250-26G4XF-PoE+	M4250-40G8F-PoE+	M4250-40G8XF-PoE+	M4250-40G8XF-PoE++
Order Number	GSM4230P	GSM4230UP	GSM4230PX	GSM4248P	GSM4248PX	GSM4248UX
10/100/1000 RJ45	26 ports	26 ports	26 ports	40 ports	40 ports	40 ports
1G SFP	4 ports	4 ports	-	8 ports	-	-
1G/10G SFP+	-	-	4 ports		8 ports	8 ports
Form Factor	Full width					
PoE	24 ports PoE+ (300W)	24 ports PoE++ (1,440W)	24 ports PoE+ (480W)	40 ports PoE+ (480W)	40 ports PoE+ (960W)	40 ports PoE++ (2,880W)

M4300 1G Product Portfolio



	M4300 1G Models						
Model Name	M4300-28G	M4300-52G	M4300-28G-PoE+		M4300-52G-PoE+		
Order Number	GSM4328S	GSM4352S	GSM4328PA	GSM4328PB	GSM4352PA	GSM4352PB	
10/100/1000 RJ45	24 ports	48 ports	24 ports PoE+		48 ports PoE+		
10G BASE-T RJ45	2 ports	2 ports	2 ports		2 ports		
1G/10G SFP+	2 ports	2 ports	2 ports		2 ports		
Form Factor	Full width						
PoE+ Budget @110V AC			1 PSU or 2 PSUs in Redundant Mode: 2 PSUs in Shared Mode:	480 Watts 720 Watts	630 Watts 720 Watts	480 Watts 720 Watts	591 Watts 1,010 Watts
PoE+ Budget @220V AC			1 PSU or 2 PSUs in Redundant Mode: 2 PSUs in Shared Mode:	480 Watts 720 Watts	720 Watts 720 Watts	480 Watts 720 Watts	860 Watts 1,440 Watts

M4300 10G Product Portfolio



	M4300 10G Models				
Model Name	M4300-8X8F	M4300-16X	M4300-12X12F	M4300-24X	M4300-24XF
Order Number	XSM4316S	XSM4316PA XSM4316PB	XSM4324S	XSM4324CS	XSM4324FS
10G BASE-T RJ45	8 ports	16 ports (Multi-Gig)	12 ports	24 ports	2 shared ports
1G/10G SFP+	8 ports	-	12 ports	4 shared ports	24 ports
Form Factor	Fixed, half-width, 1U				
PoE+	-	16 ports PoE+ (199W or 500W)		-	

M4300 & M4500 Product Portfolio



	M4300 10G Models				M4500 100G Models	
Model Name	M4300-24X24F	M4300-48X	M4300-48XF	M4300-96X	M4500-48XF8C	M4500-32C
Order Number	XSM4348S	XSM4348CS	XSM4348FS	XSM4396K0 XSM4396K1	XSM4556	CSM4532
10G BASE-T RJ45	24 ports	48 ports	2 shared ports	Up to 96 ports (Multi-Gig)	-	-
1G/10G SFP+	24 ports	4 shared ports	48 ports	Up to 96 ports	-	-
1G/10G/25G SFP28	-	-	-	-	48 ports	-
40G QSFP+	-	-	-	Up to 24 ports	-	-
25G/40G/50G /100G QSFP28	-	-	-	-	8 ports	32 ports
Form Factor	Fixed, 1U			Modular, 12 slots, 2U	Fixed, 1U	
PoE+	-			Up to 48 ports PoE+	-	

The NETGEAR commitment

- Lifetime hardware warranty & Next Business Day Replacement
- 24/7 90 day phone support & 24/7 Lifetime chat support
- Active online community: community.netgear.com
- Dedicated Pro AV Engineering Services team: ProAVDesign@netgear.com



Comprehensive portfolio and product roadmap



Executive management commitment



Expert sales and 24/7 technical support



Extensive channel programs