



Hassle-free, cloud-managed routing for integrators with the Insight Managed Pro Router

The PR460X 10G/Multi-Gigabit Dual WAN Pro Router with Insight Remote Cloud Management makes it easy to connect and manage internet traffic between wired devices within a secure network.

Developed for residential and commercial applications, this cutting-edge router is designed to meet high-end client needs who require

lightning-fast speeds and exceptional connectivity with remote management capabilities. The Dual WAN functionality includes failover protection, ensuring uninterrupted internet connectivity for critical applications and services. The sleek, updated form factor of the router is designed for mounting with the ports in the rear, but can be installed reversed with the included rack ears.

The PR460X includes a 4-year Insight Remote Cloud Management subscription, which allows for a simple and stress-free way to remotely configure and manage your network from any location.



Highlights

Intelligent Router

Providing all the routing and network segmentation features that a router must have, the NETGEAR PR460X will be the backbone of any integrator project.

10G/Multi-Gigabit LAN/WAN ports keep your data moving at top speed. VPN features, such as IPSec VPN and Open VPN, provide secure connection to a remote network. With Network Address Translation (NAT) routing, IT managers can access your client's broadband connection at the same time.

Leverage up to 32 VLANs to separate the network into smaller groups for more secure and efficient use of network resources. Simplify network administration with up to 32 DHCP servers assigning IP addresses automatically.

Remote Management

The NETGEAR Insight Remote Management platform offers visibility and access to the routing features from a single pane of glass. Register, configure, manage and monitor your router with just a few taps from your Insight mobile App or web portal.

Business Grade

The quiet 19-inch rack-mountable metal unit is backed by the industry's best-in-class 5-year hardware warranty, 90-day free technical support, and 5-year next business day replacement.

AV-over-IP management

The NETGEAR Engage Controller removes the complexity from network configuration and management in AV-over-IP installations using PR460X router, WiFi7 Access Points, M4250, M4300, M4350, and M4500 switches.

Simply activate NETGEAR Insight Cloud management to manage your network. Anytime. Anywhere.

Activating NETGEAR Insight Cloud management enables users to experience simpler configuration and deployment from anywhere using the NETGEAR Insight app from mobile devices or the Insight Cloud portal from any device with a web browser.

Unique advanced management features of Insight managed devices include:

- Remote monitoring and management with performance dashboards and troubleshooting features including remote reboot, port and PoE advanced configuration including remote enable/disable/power-cycle, PoE scheduling, and firmware updates with auto-schedule mode
- Single pane-of-glass multi-device, multi-network, and multi-site remote monitoring and notifications with the NETGEAR Insight app
- Full-fledged local or remote access for configuration, management, and monitoring on a larger display using your tablet, laptop, or desktop computer through the NETGEAR Insight Cloud portal
- Configurable in-app and email alerts and notifications
- Auto-join and configure (zero-touch provisioning) for additional Insight managed devices added to the network
- Centralized network configuration (policies) across Insight managed switches, and access points for VLANs, ACLs, QoS, LAGs, etc.
- Cloud-based network administration, monitoring, and firmware management

Add the PR460X Router to your AV Network with NETGEAR Engage™ Controller

Engage brings a new, easier way to configure AV Networks. Engage Version 2 adds the ability to onboard a PR460X router and select wireless access points extending the ease of use previously only available to NETGEAR AV switches.

General Engage Features

- **AV User Interface:** Higher visibility for features AV networks need most
- **Quick Configurations:** Unique, port-based configuration profiles tested by the endpoint partner manufacturers
- **Auto Discovery:** Automatically detect all NETGEAR AV switches on your network
- **Easy Updates:** Upgrade firmware on multiple devices at once during onboarding process
- **Single Pane of Glass:** Centralized workflow to deploy configurations to all NETGEAR AV devices across your entire network
- **Visual Aid:** Network topology view lets you visualize all managed NETGEAR AV devices
- **Exclusive Features:** Easily leverage breakthrough features like NETGEAR IGMP Plus™, Auto-LAG, and Auto-Trunk
- **No Installation Required:** Lightweight, portable application - you can run it from a USB thumb drive (Win/Mac)

Router Features with Engage

- **DHCP Hosting per VLAN/AV Profile:** The DHCP server can be hosted on the router for each VLAN/AV profile, simplifying network management.
- **One-Click Internet Access:** Allows easy propagation of internet connectivity to each VLAN/AV profile with a single click.
- **One-Click mDNS Gateway:** Enable Bonjour, Chromecast, Spotify, and other mDNS traffic to be shared between VLANs.
- **Auto-Trunk for Zero Configuration:** Automatic VLAN trunking with no setup on the switch where the router is connected, streamlining deployment and reducing setup time.

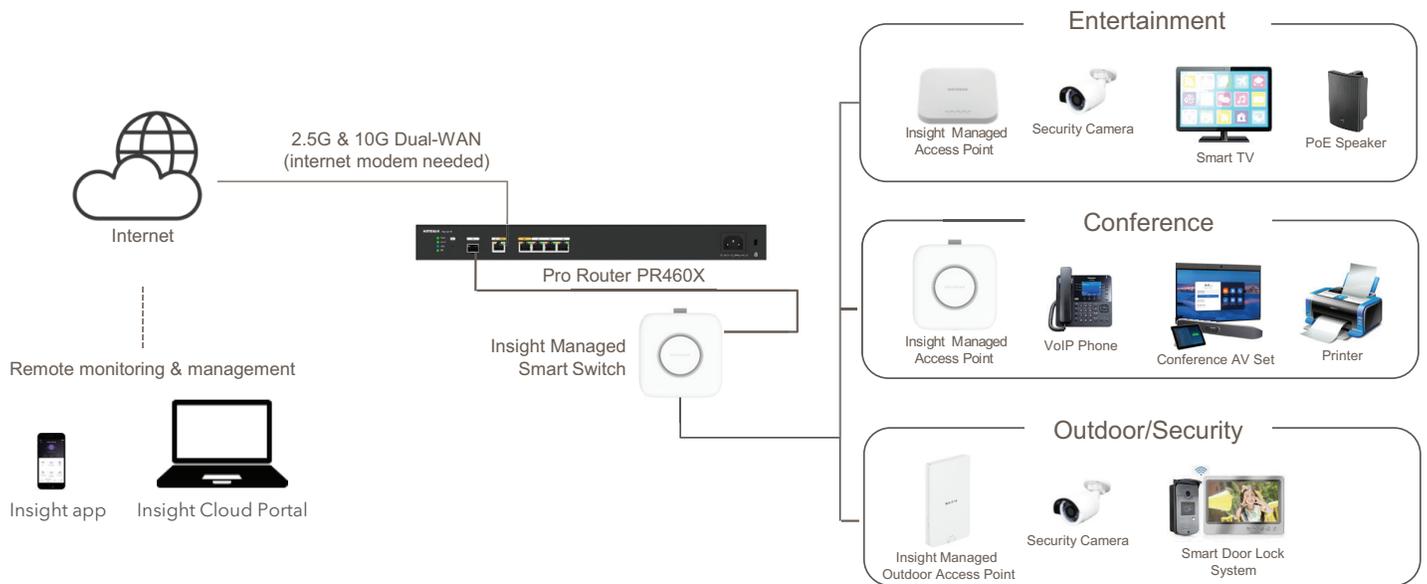
For more information about the free NETGEAR Engage Controller please visit: <https://www.netgear.com/engage>

Features and Benefits

High performance hardware	10G/Multi-Gigabit throughput with 1x2.5G WAN, 1x10G/Multi-Gigabit WAN/LAN configurable 3x2.5G LAN and 1x10G SFP+ LAN port.
WAN-to-LAN Throughput	When using WAN2 port - 10Gbps max WAN with 17.5Gbps max LAN When using WAN1 port only - 2.5Gbps max WAN with 27.5Gbps max LAN
Primary and secondary internet connections	Dual WAN ports for failover accommodating two internet connections to maintain a reliable link. The first connection functions as the primary and the other as a backup.
Leverage up to 32 VLANs	Separate the network into smaller groups for more secure and efficient use of network resources.
Supports up to 32 DHCP servers	Allows for automatic assignment of IP addresses, simplifying network administration.
Firewall protection against malicious incoming traffic	Prevents unauthorized access to the network and monitors the communications between the network and the outside world with support up to 250,000 concurrent connections.
NETGEAR Insight Remote/Cloud Management	Instant discovery, configuration, and management of your network and Pro Router. Free 4-year subscription included.
NETGEAR Engage Controller for AV-over-IP	A free, portable app for Windows, and MacOS, the controller automatically detects all the compatible devices permitting effortless firmware upgrades, profile configurations, and much more.
Versatile rackmount design	Reverse mounting rack ears included for front-facing or rear-facing ports as desired for a clean or traditional look.
IPSec Site-to-Site VPN	Provides up to 30 VPN tunnels for secure multi-site connections.
IPSec Client-to-Site VPN	Provides up to 60 client device connections (max total 60 combined with IPSec Site-to-Site)
Open VPN Client-to-Site	Provides up to 60 client device connections.
WireGuard	Fast and encrypted VPN
Dynamic DNS	Updates DNS records automatically to reflect WAN IP address change.
mDNS Gateway	Allows services such as printer, AppleTV and Chromecast TV, to traverse across VLAN networks.
QoS (Smart Queue Management)	Mitigates upload/download latency per WAN port.
Thrid Party Support	Domotz network monitoring

Target Application

Professional Residential Installer - PR460X



Technical Specifications

FEATURES

PR460X

Connectivity

Gigabit Ports WAN/LAN	1 x 10G/Multi-Gigabit Copper (Configurable LAN/WAN) 1 x 2.5G/1G RJ-45 (WAN) 3 x 2.5G/1G RJ-45 (LAN) 1 x 10G/1G SFP+ (LAN)
DMZ Interfaces (Configurable)	Yes

Performance

LAN-to-WAN Throughput	For 2.5G WAN port, LAN-to-WAN throughput is 2.4Gbps For 10G WAN port, LAN-to-WAN throughput is 9.4Gbps
Maximum Number of VLANs	32
Concurrent Connection Limit	60,000
Concurrent Client Limit	2,000

LAN-WAN BiDirectional Throughput

Stream	UDP BiDirectional	TCP BiDirectional
LAN1, LAN 2, LAN 3 to WAN 2	13.88 Gbps (4.48+4.70+4.70)	13.87 Gbps (4.50+4.68+4.69)
LAN 1 to LAN 2	4.77 Gbps	4.70 Gbps
LAN 1 to WAN 1	4.77 Gbps	4.70 Gbps
WAN 1 to LAN 5	4.76 Gbps	4.66 Gbps
WAN 1 to LAN 4	4.76 Gbps	4.67 Gbps
WAN 2 to LAN 4	18.77 Gbps	18.83 Gbps
LAN 4 to WAN 2	18.77 Gbps	18.78 Gbps

Security

Firewall Functions	Firewall Traffic Rules/Scheduling, Port Forwarding, Port Triggering, Stateful Packet Inspection (SPI), Port/Service Blocking, Denial-of-service (DoS) Prevention, Stealth Mode, Block TCP Flood, Block UDP Flood, Respond To Ping on Internet Port
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VoIP SIP ALG	Yes
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Networking

ISP Address Assignment	DHCP, Static IP Assignment, PPPoE
NAT Modes	NAT
Routing	Static, Dynamic, RIPv1, RIPv2
DHCP Server	32
Concurrent Clients	60,000
Concurrent Connections	2,000

Technical Specifications

Networking	
VLANs (Up to 32)	802.1Q
Essential Networking Features	MAC Address Cloning/spoofing, NTP Support, UPnP, Auto Uplink on Switch Ports
QoS	Smart Queue Management
Dynamic DNS	Yes
mDNS Gateway	Yes
LLDP	Yes
Third Party Support	Domotz
VPN	
Maximum VPN Throughput	Site-to-Site 4.42 Gbps using 2.5G WAN; 8.92 Gbps using 10G WAN; Client-to-Site 500 Mbps
Protocol	IPSec Site-to-Site, IPSec Client-to-Site, OpenVPN Client-to-Site, WireGuard
IPsec Encryption/Authentication	3DES, AES (128, 192, 256 bit)/SHA-1, SHA-2 (256 bit), MD5
Key Exchange	IKEv1, IKEv2, Pre-shared Key
Access Modes	Remote access via Insight Remote Cloud Management
Insight Cloud Management Features	
Logging	Accepted Packets, Dropped Packets Statistics, System, Source MAC filter, Session Limit, Bandwidth Limit, IPsec VPN
Log Delivery	Insight logging
Troubleshoot	Diagnostics Ping, DNS Lookup, Trace Route, Speed test
Maintenance	Save/Restore Configuration, Restore to Factory Defaults, Firmware Upgrades, Display and Monitor Statistics
AV Configurable Features with Engage Controller	
VLAN/AV Profile	Single click Internet Access, Hosted DHCP server on ProRouter
Troubleshoot	Single click mDNS Gateway
Auto-Trunk	Yes
Hardware	
Processor	Quad Core ARM A73 @ 2.2 GHz Packet Process Engine (PPE) processors
Flash Memory/RAM	2GB DDR4/4GB eMMC
Major Regulatory Compliance	Environment: RoHS Safety: CE/LVD, CSA EMI: FCC Part 15 Class B, CE mark

Technical Specifications

Temperatures	Operating Temperature: 0° - 40°C (32°-104° F) Storage Temperature: -20° - 70° C (-4° - 158° F)
Humidity	Operating humidity 90% maximum relative humidity, non-condensing Storage humidity 95% maximum relative humidity, non-condensing
Electrical Specifications	AC Input: 100-240V, 50/60Hz, 1.3A
Dimensions (W x D x H)	17.3 x 3.9 x 1.7in (440 x 100 x 43.2mm)
Weight	3.34lb (1.513kg)
System Requirements	Cable or DSL Broadband Modem, Internet Service, Windows Client Device, Internet Explorer/Firefox/Chrome/Safari Web Browser

Warranty and Support

Hardware Warranty*	5-year
Next Business Day Replacement	5-year
Free Technical Support*	90 Days
ProSUPPORT OnCall** 24x7 Service Packs	Category 2 PMB0312-10000S PMB0332-10000S PMB0352-10000S
Insight Remote Cloud Management	4-year Insight subscription included

Package Contents

PR460X	NETGEAR PR460X 10G/Multi-Gigabit Dual WAN Pro Router with Insight Cloud Management Rack-mount kit Rubber feet (for desktop deployment) Power cord(s) (varies by region) Ethernet cable Installation guide
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Ordering Information

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North America	PR460X-111NAS
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Europe	PR460X-111EUS
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Australia & New Zealand	PR460X-111AUS
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India	PR460X-111INS
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Japan	PR460X-111JPS
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South Korea	PR460X-111KOS
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Taiwan	PR460X-111TWS
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Hong Kong, Singapore and Middle East	PR460X-111UKS
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*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 at <https://www.netgear.com/business/registration> 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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