

10G/multi-gigabit dual WAN Pro Router PR460X

Hassle-free, cloud-managed routing for integrators



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 the needs of high-end clients 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 is designed for rack mounting with ports in the rear and can also be installed reversed with the included rack ears. The PR460X includes a 4-year Insight remote cloud management subscription for simple, stress-free remote configuration and management from any location.

Highlights

Intelligent router

Providing all the routing and network segmentation features a router must have, the NETGEAR PR460X can form 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 OpenVPN provide

secure connections to remote networks. With Network Address Translation (NAT) routing, IT managers can access broadband connections simultaneously.

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 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 limited lifetime warranty. See terms and conditions for details. Optional support tiers are available to match your operational needs.

AV-over-IP management

The NETGEAR Engage controller removes the complexity from network configuration and management in AV-over-IP installations using the PR460X router, WiFi 7 Access Points, M4250, M4300, M4350, and M4500 switches.

Optional security licensing — powered by Exium

The PR460X security license transforms your high-performance router into a powerful, all-in-one security gateway — no additional hardware required. This simple license add-on enables robust threat prevention, web security, and Zero Trust capabilities. Security features are managed through the NETGEAR Exium dashboard, accessible directly from the NETGEAR Insight UI.



NEW: One box. Total protection.

Activate enterprise-grade security on your existing PR460X router with a simple license key — delivering comprehensive network protection within the familiar NETGEAR ecosystem.

Security feature highlights

- Transform your router into a security gateway – Activate enterprise-grade security capabilities on your PR460X Router with a simple license, eliminating the need for a separate firewall appliance.
- Comprehensive threat protection – Defend your network with advanced DNS/Web Security, Threat Prevention, and a powerful cloud-managed firewall.
- Zero Trust and secure access – Implement modern security principles with Agentless Zero Trust Network Access (ZTNA) and secure VPN to protect users and data.
- Unified security center in Insight – Security licenses are mapped to your PR460X routers through NETGEAR Insight, with direct one-click access to the Exium security dashboard across all projects and sites.
- Seamless integration with Single Sign-On (SSO) – Launch directly into the security configuration dashboard from NETGEAR Insight for a frictionless management experience.

- High-performance security – Leverage the full power of the PR460X's 10G hardware for high-throughput security without performance trade-offs in demanding AV-over-IP environments.
- Flexible licensing options – Choose from 1-year, 3-year, or 5-year terms to fit your project needs. A 90-day free trial is included for all PR460X users.
- Designed for AV integrators – A cost-effective, scalable solution that simplifies security management for AV integrators and MSPs in both residential and commercial settings.

Security management via NETGEAR Insight

The new Security Center in NETGEAR Insight provides a single, familiar platform to deploy and manage security licenses across all your sites and clients. Access the NETGEAR Exium security dashboard with a single click, enabling multi-tenant, multi-site security management from the same interface you already use for routing, switching, and wireless.

Important: The PR460X can be managed by either NETGEAR Insight or the NETGEAR Engage controller — not both simultaneously. The optional NETGEAR Exium security licensing is available exclusively through the NETGEAR Insight management path.

NETGEAR Insight cloud management

Activating NETGEAR Insight cloud management enables 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.

Advanced management features

- Remote monitoring and management with performance dashboards and troubleshooting features including remote reboot, port and PoE advanced configuration, 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 using tablet, laptop, or desktop 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

NETGEAR Engage™ controller for AV-over-IP

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 endpoint partner manufacturers
- Auto discovery: Automatically detect all NETGEAR AV switches on your network
- Easy updates: Upgrade firmware on multiple devices at once during the 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 NETGEAR IGMP Plus™, Auto-LAG, and Auto-Trunk
- No installation required: Lightweight, portable application — 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



Features and benefits

Features	Description
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	WAN2: 10Gbps max WAN with 17.5Gbps max LAN WAN1 only: 2.5Gbps max WAN with 27.5Gbps max LAN
Dual WAN failover	Two internet connections for primary and backup, ensuring reliable link continuity for critical applications and services
Dual WAN load balancing	Distribute network traffic across two internet connections for optimized performance
Up to 32 VLANs	Separate the network into smaller groups for more secure and efficient use of network resources
Up to 32 DHCP servers	Automatic IP address assignment simplifies network administration
Firewall protection	Prevents unauthorized access; monitors communications with support for up to 250,000 concurrent connections
NETGEAR Insight remote management	Instant discovery, configuration, and management of your network and Pro Router. Free 4-year subscription included
Exium security license (optional)	Transforms the PR460X into a complete security gateway with advanced threat prevention, DNS/web security, Zero Trust access, and cloud-managed firewall. Available in 1-, 3-, and 5-year terms; 90-day free trial included
NETGEAR Engage controller for AV-over-IP	Free portable app for Windows and MacOS. Auto-detects compatible devices, enables firmware upgrades, profile configurations, and much more
Versatile rackmount design	Reverse mounting rack ears included for front-facing or rear-facing ports as desired
IPSec site-to-site VvPN	Provides up to 30 VPN tunnels for secure multi-site connections
IPSec client-to-site VPN	Up to 100 client device connections (max 100 combined with IPSec Site-to-Site)
OpenVPN client-to-site	Provides up to 100 client device connections
WireGuard	Fast and encrypted VPN providing up to 100 client device connections
Dynamic DNS	Updates DNS records automatically to reflect WAN IP address changes
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
Link Aggregation Group (LAG)	Combine multiple Ethernet links into a single logical link between two networked devices
Third party support	Domotz network monitoring

Technical specifications

Features	
Connectivity	
Gigabit ports WAN/LAN	1x10G/multi-gigabit copper (configurable LAN/WAN) 1x2.5G/1G RJ-45 (WAN) 3x2.5G/1G RJ-45 (LAN) 1x10G/1G SFP+ (LAN)
Dual WAN failover	Yes
Dual WAN load balancing	Yes
DMZ interfaces (configurable)	Yes
Performance	
LAN-to-WAN throughput	2.5G WAN: 2.4 Gbps 10G WAN: 9.4 Gbps
Maximum VLANs	32
Concurrent connection limit	60,000
Concurrent client limit	2,000
LAN-WAN bi-directional throughput	
LAN1, LAN2, LAN3 to WAN2 (UDP / TCP)	13.88 Gbps / 13.87 Gbps
LAN1 to LAN2 (UDP / TCP)	4.77 Gbps / 4.70 Gbps
LAN1 to WAN1 (UDP / TCP)	4.77 Gbps / 4.70 Gbps
WAN2 to LAN4 (UDP / TCP)	18.77 Gbps / 18.83 Gbps
LAN4 to WAN2 (UDP / TCP)	18.77 Gbps / 18.78 Gbps
Security	
Firewall functions	Traffic rules/scheduling, port forwarding, port triggering, Stateful Packet Inspection (SPI), port/service blocking, DoS prevention, stealth mode, Block TCP/UDP Flood, respond to ping on internet port
VoIP SIP ALG	Yes
Optional security license (Exium)	Advanced threat prevention, DNS/web security, cloud-managed firewall, agentless ZTNA, secure VPN, single sign-on via Insight 1-yr, 3-yr, 5-yr terms; 90-day free trial included

Technical specifications

Features	
Networking	
ISP address assignment	DHCP, static IP assignment, PPPoE
NAT modes	NAT
Routing	Static, dynamic, RIPv1, RIPv2
DHCP servers	32
VLANs	802.1Q (up to 32)
Essential networking features	MAC address cloning/spoofing, NTP support, UPnP, auto iplink on switch ports
QoS	Smart Queue Management
Dynamic DNS	Yes
mDNS gateway	Yes
LLDP	Yes
Link Aggregation Group (LAG)	Yes
Third party support	Domotz
VPN	
Maximum VPN throughput	Site-to-Site: 4.42 Gbps (2.5G WAN) / 8.92 Gbps (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
IPSec site-to-site tunnels	Up to 30
IPSec / openVPN / WireGuard client-to-site	Up to 100 client connections each
Hardware	
Processor	Quad core ARM A73 @ 2.2 GHz with Packet Process Engine (PPE) processors
Flash memory / RAM	2 GB DDR4 / 4 GB eMMC
Dimensions (W x D x H)	17.3 x 3.9 x 1.7 in (440 x 100 x 43.2 mm)
Weight	3.34 lb (1.513 kg)
Electrical specifications	AC Input: 100–240V, 50/60 Hz, 1.3A
Operating temperature	0°– 40°C (32°–104°F)
Storage temperature	-20°– 70°C (-4°–158°F)
Humidity (operating)	Up to 90% relative humidity, non-condensing
Humidity (storage)	Up to 95% relative humidity, non-condensing

Technical specifications

Features	
Regulatory compliance	
Environment	RoHS
Safety	CE/LVD, CSA
EMI	FCC Part 15 Class B, CE mark
Warranty and support	
Hardware warranty	NETGEAR Enterprise Limited Lifetime Warranty*
Sprint Support	24/5 technical support (phone, online) and advance RMA replacement
OverdriveSupport	24/7 technical support (phone, online, 2h SLA) and next business day RMA replacement

Ordering information

Region	Part number
North America	PR460X-111NAS
Europe	PR460X-111EUS
Australia & New Zealand	PR460X-111AUS
India	PR460X-111INS
Japan	PR460X-111JPS
South Korea	PR460X-111KOS
Taiwan	PR460X-111TWS
Hong Kong, Singapore & Middle East	PR460X-111UKS
China	PR460X-111PRS
Other APAC	PR460X-111PES

Security License SKUs: 1-year, 3-year, and 5-year options available (WIP — contact your NETGEAR representative for current SKUs)

Security licensing SKU	Duration of license
SEC-PR460X-01	Monthly
SEC-PR460X-12	1 year
SEC-PR460X-36	3 year
SEC-PR460X-60	5 year

Package Contents

- NETGEAR PR460X 10G/multi-gigabit dual WAN Pro Router with Insight cloud management
- Rack-mount kit (includes reverse-mounting rack ears)
- Rubber feet (for desktop deployment)
- Power cord(s) (varies by region)
- Ethernet cable
- Installation guide

* This product comes with a limited warranty valid only if purchased from a NETGEAR authorized reseller, covering unmodified hardware, fans and internal power supplies. Requires product registration at www.NETGEAR.com/business/registration within 90 days of purchase. See 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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