



GWN7001



GWN7002



GWN7003

Gigabit Multi-WAN VPN Router

GWN7001 • GWN7002 • GWN7003

The GWN7001, GWN7002, and GWN7003 are Gigabit Multi-WAN VPN routers with integrated firewalls, designed for businesses to build comprehensive wired, wireless, and VPN networks across one or multiple locations. They offer high-performance routing and switching, along with integrated VPN to ensure secure connectivity both inside and outside the office. To provide enterprise-grade security and stable network operation, the GWN7000 series incorporates an advanced firewall with content security, intelligent filtering, threat detection and prevention, attack protection, and more. To maximize availability, the devices support load balancing, failover, and efficient bandwidth management.

The GWN7001 has 6 Gigabit Ethernet ports, while the GWN7002 / GWN7003 has 2 Gigabit 2.5 SFP ports.

4/9 Gigabit Ethernet ports and 2 PoE ports for powering end devices. The series integrates a Wi-Fi network controller that allows you to manage both the router and up to 150 Grandstream GWN Wi-Fi access points directly from its web interface.

They can also be managed through GWN.Cloud and GWN Manager, Grandstream's free cloud and on-premises management platforms. Thanks to their triple-play compatibility, it's possible to assign independent VLANs and priorities to services such as Internet, IPTV, and VoIP. With their high-performance routing, VPN support, robust security protection, and user-friendly management tools, GWN Gigabit VPN routers are ideal for a wide range of deployments, including small and medium-sized businesses, branch offices, education, hospitality, hospitals, and more.



1 GbE RJ45 port with PoE input IEEE 802.3af/ and 2 GbE RJ45 ports with 48V passive PoE output or IEEE802.3af (GWN7002/GWN7003)



It allows multiple ports Gigabit RJ45 and ports Gigabit SFP



Compatibility with Integrated VPN allows easy access to corporate networks for remote employees



Multiple WAN ports with load balancing and failover to maximize connection reliability (SDWAN compatible with GWN7003)



Extensive firewall features, including DDNS, port forwarding, DMZ, UPnP, Anti-Dos, traffic rules, NAT, and ALG.



It allows monitoring of applications and protocols and traffic statistics with deep packet inspection (DPI)



Advanced QoS to ensure real-time performance of low-latency applications



It allows filtering of applications, URLs, DNS and web content to block access to unsafe content.



The integrated controller can manage itself and up to 150 GWN access points; GWN. Cloud offers a free cloud-based management platform for an unlimited number of GWN routers and APs.



The TURN service with IP PBX enables the following: NAT transversal

	GWN7001	GWN7002	GWN7003
CPU	Dual ARM Cortex A53 1GHz		
Memory and NAT sessions:	256 MB RAM, 256 MB Flash, 30k NAT sessions; 256 MB RAM, 256 MB Flash, 30k NAT sessions; 512 MB RAM, 256 MB Flash, 60K NAT sessions		
Network interfaces	6 Gigabit Ethernet ports <i>*All ports support WAN/LAN configuration</i>	2 Gigabit SFP ports and 4 Ethernet ports Gigabit <i>*All ports support WAN/LAN configuration</i>	2 Gigabit SFP ports and 9 Ethernet ports Gigabit <i>*All ports support WAN/LAN configuration</i>
NAT Throughput	2.2Gbps		
IPsec VPN performance	530Mbps		
Auxiliary ports:	1 USB 2.0 port, 1 reset hole		
Mounting:	Desktop and wall mount		Desktop, wall mount, or rack mount (rack mount brackets included)
LED	8 single-color LEDs for device tracking and status indication	8 single-color LEDs for device tracking and status indication	13 single-color LEDs for device tracking and status indication
Connection type	DHCP, Static IP, PPPoE, PPTP, L2TP		
Network protocols	IPv4, IPv6, IEEE802.1Q, IEEE 802.1p, IEEE802.1x, IEEE802.3, IEEE 802.3u, IEEE 802.3x, IEEE802.3ab		
QoS	• VLAN, TOS • Support for multiple traffic classes, filtering by port, IP address, DSCP, and monitoring • Quality of service of the application • VoIP prioritization		
DDNS	firewall, port forwarding, DMZ, UPnP, anti-DoS, traffic rules, NAT, ALG, TURN service		
Security	• Application/protocol monitoring and traffic statistics • Content filtering: Supports filtering of applications, URLs, DNS, and web content • Secure search		
VPN	• IPsec VPN client-to-site / site-to-site • PPTP VPN server/client • L2TP client-to-site • OpenVPN® server/client • WireGuard® • IPsec encryption: DES, 3DES, AES • IPsec Authentication: MD5, SHA-1, SHA2-256 • IPsec key exchange: Primary/aggressive mode, pre-shared key, DH groups 1/2/5/14 • IPsec Protocols: ESP • NAT transversal IPsec • OpenVPN® encryption: AES, DES • OpenVPN® Authentication: MD5, SHA-1, SHA2-256, SHA2-384, SHA2-512 • OpenVPN® Certificate: RSA • PPTP Encryption: MPPE 40 bits, 128 bits, IPsec • PPTP/L2TP Authentication: MS-CHAPv1/2		
Maximum number of simultaneous VPN tunnels	Up to 50 Tunnels	Up to 50 tunnels	Up to 100 tunnels
Network administration	The integrated GWN7001 controller can manage itself and up to 100 GWN APs • GWN.Cloud offers a free cloud management platform for an unlimited number of GWN routers and access points. • SSH for CLI • Telnet (pending) • TR-069 • SNMP v1/v2c/v3 • SDWAN (GWN7003)	The integrated GWN7002 controller can manage itself and up to 100 GWN APs	The integrated GWN7003 controller can manage itself and up to 150 GWN APs
USB port specifications	It allows connections of 4G USB modems with a power consumption that does not exceed the maximum power for the corresponding hardware version: • Power for hardware versions prior to V2.0A: 0.5 A 2.5 W • Power for hardware versions later than V2.0A: 0.8 A 4 W		It allows connections of 4G USB modems with a power consumption that does not exceed the maximum power for the corresponding hardware version: • Power for hardware versions prior to V2.0A: 0.5 A 2.5 W • Power for hardware versions later than V2.0A: 1 A 5 W
PoE Input	N/A	Standard: IEEE 802.3af/at	
PoE output	N/A		2x PoE output ports 48 V passive or IEEE802.3af
PoE energy rate	N/A	24V DC 1A: 12.8W 24V DC 1.5A: 24.8W	24V DC 1A: 12.8W 24V DC 1.5A: 24.8W 24V DC 2A: 36W
Energy and ecological efficiency	Universal power adapter included Input: 100-240 V AC, 50-60 Hz Output: 12 V DC, 1 A (12 W)	Universal power adapter included: Input: 100-240 V AC, 50-60 Hz Output: 24 V DC, 1 A (24 W)	Universal power adapter included: Input: 100-240 V AC, 50-60 Hz Output for hardware versions prior to V2.0: 24 V DC, 1 A (24 W) Output for hardware versions later than V2.0: 24 V DC, 2 A (48 W)
Environmental	Operating temperature: 0 °C to 40 °C Storage: -30 °C to 60 °C Humidity: 10% to 90% non-condensing		
Physical	Unit dimensions: 210mm (length) x 130mm (width) x 35mm (height); Unit weight: 453 g Package dimensions: 246mm (length) x 235mm (width) x 54mm (height); Package weight: 672 g	Unit dimensions: 210mm (length) x 130mm (width) x 35mm (height); Unit weight: 505 g Package dimensions: 246mm (length) x 235mm (width) x 54mm (height); Package weight: 730 g	Unit dimensions: 260mm (length) x 149.35mm (width) x 35mm (height); Unit weight: 1096 g Package dimensions: 297mm (length) x 255.5mm (width) x 54mm (height); Package weight: 1443 g
Package contents	GWN7001 router, universal power supply, network cable and quick installation guide	GWN7002 router, universal power supply, network cable and quick installation guide	GWN7003 router, universal power supply, network cable, quick installation guide, 8 screws, 1 ground wire, 2 mounting brackets
Compliant with	FCC, CE, RCM, IC, UKCA		