



GRANDSTREAM
CONNECTING THE WORLD



GWN7001



GWN7002



GWN7003

Multi-WAN Gigabit VPN Router

GWN7001 • GWN7002 • GWN7003

GWN7001/7002/7003 are Multi-WAN Gigabit VPN routers with built-in firewalls that allow businesses to build comprehensive wired, wireless and VPN networks for one or many locations. They offer high-performance routing and switching power along with built-in VPN support for secure in-office and inter-office connectivity. To provide enterprise-grade security protection and ensure stable network operation, the GWN7001/7002/7003 features a built-in firewall with advanced content security, filtering, threat detection, attack prevention and more. To maximize network reliability, they support traffic load balancing, failover and bandwidth management capabilities. The GWN7001 includes 6 Gigabit Ethernet ports. The GWN7002 and GWN7003 feature 4 and 9 Gigabit Ethernet ports respectively, along with two 2.5 Gigabit SFP ports and 2 PoE output ports for powering external endpoints. These routers can manage themselves and up to 150 Grandstream GWN Series Wi-Fi APs via an embedded controller in the local web UI. These routers can also be managed with GDMS Networking and GWN Manager, Grandstream's free cloud and on-premise network management tools. By supporting triple-play, different services such as Internet, IPTV and VoIP can be assigned with different VLANs and priorities. By providing high-performance routing, VPN support, powerful security protection and easy-to-use network management tools, the GWN Gigabit VPN routers are ideal for a wide variety of deployments including small-to-medium businesses, retail, education, hospitality, healthcare and more.



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



Supports multiple Gigabit RJ45 ports and Gigabit SFP ports



Built-in VPN support allows easy access to corporate networks for remote employees



Multiple WAN ports with load balancing and failover to maximize connection reliability



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



Supports application/protocol monitoring and traffic statistics with Deep Packet Inspection (DPI)



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



Supports application, URL, DNS, and web content filtering to block access from unsafe contents



Embedded controller can manage itself and up to 150 GWN APs; GWN. Cloud offers a free cloud management platform for unlimited routers and GWN APs



Supports TURN service with IP PBX to quickly achieve NAT traversal

	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 Ports	6 x Gigabit Ethernet ports <i>*All ports support WAN/LAN configuration</i>	2 x 2.5 Gigabit SFP ports and 4x Gigabit Ethernet ports <i>*All ports support WAN/LAN configuration</i>	2 x 2.5 Gigabit SFP ports and 9x Gigabit Ethernet ports <i>*All ports support WAN/LAN configuration</i>
NAT Throughput	2.2 Gbps		
IPsec VPN Throughput	530 Mbps		
Auxiliary Ports	1 x USB 2.0 port, 1 x Reset Pinhole		
Mounting	Desktop and wall mounting		Desktop, wall-mount or rack-mount (rack-mount brackets included)
LEDs	8 x single-color LEDs for device tracking and status indication	8 x single-color LEDs for device tracking and status indication	13 x 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 - Supports multiple traffic classes, filtering by port, IP address, DSCP, and policing - App Qos - VoIP Prioritization		
Firewall	DDNS, Port Forwarding, DMZ, UPnP, Anti-DoS, Traffic Rules, NAT, ALG, TURN Service		
Security	- Application/protocol monitoring and traffic statistics - Content filtering: Supports application, URL, DNS, and web content filtering - Safe 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: Main/Aggressive Mode, Pre-shared Key, DH Groups 1/2/5/14 - IPsec Protocols: ESP - IPsec NAT Traversal - OpenVPN® Encryption: AES, DES - OpenVPN® Authentication: MD5, SHA-1, SHA2-256, SHA2-384, SHA2-512 - OpenVPN® Certificate: RSA - PPTP Encryption: MPPE 40-bit, 128-bit, IPsec - PPTP/L2TP Authentication: MS-CHAPv1/2		
Max Concurrent VPN Tunnels	Up to 50 tunnels	Up to 50 tunnels	Up to 100 tunnels
Network Management	GWN7001 embedded controller can manage itself and up to 100 GWN APs GWN7002 embedded controller can manage itself and up to 100 GWN APs GWN7003 embedded controller can manage itself and up to 150 GWN APs • GDMS Networking offers a free cloud management platform for unlimited GWN Routers and GWN APs • SSH for CLI • Telnet (Pending) • TR-069 • SNMP v1/v2c/v3		
USB Port Specifications	Supports connections of 4G USB modems with power consumption not exceeding the maximum output for the corresponding hardware version: - Output for hardware version before V2.0A: 0.5 A, 2.5 W - Output for hardware version after V2.0A: 0.8 A, 4 W	Supports connections of 4G USB modems with power consumption not exceeding the maximum output for the corresponding hardware version: - Output for hardware version before V2.0A: 0.5 A, 2.5 W - Output for hardware version after V2.0A: 1 A, 5 W	
PoE Input	N/A	Standard: IEEE 802.3af/at	
PoE Output	N/A	2 x PoE out ports Passive 48 V or IEEE802.3af	
PoE Power Budget	N/A	24 V DC, 1 A: 12.8 W 24 V DC, 1.5 A: 24.8 W	24 V DC, 1 A: 12.8 W (Default for hardware before V2.0A) 24 V DC, 1.5 A: 24.8 W 24 V DC, 2 A: 36 W (Default for hardware V2.0A and later)
Power Adapter	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 before V2.0A: 24 V DC, 1 A (24 W) Output for hardware V2.0A and later: 24 V DC, 2 A (48 W)
Environmental	Operation: 0 °C to 40 °C (32 °F to 104 °F) Storage: -30°C to 60°C (-22 °F to 140 °F) Humidity: 10%–90%, non-condensing		
Physical	Unit Dimension: 210 mm x 130 mm x 35 mm (8.27" x 5.12" x 1.38") (L x W x H) Unit Weight: 453 g (1.0 lb) Entire Package Dimension: 246 mm x 235 mm x 54 mm (9.69" x 9.25" x 2.12") (L x W x H) Entire Package Weight: 672 g (1.48 lb)	Unit Dimension: 210 mm x 130 mm x 35 mm (8.27" x 5.12" x 1.38") (L x W x H) Unit Weight: 505 g (1.11 lb) Entire Package Dimension: 246 mm x 235 mm x 54 mm (9.69" x 9.25" x 2.12") (L x W x H) Entire Package Weight: 730 g (1.61 lb)	Unit Dimension: 260 mm x 149.35 mm x 35 mm (10.24" x 5.88" x 1.38") (L x W x H) Unit Weight: 1,096 g (2.42 lb) Entire Package Dimension: 297 mm x 255.5 mm x 54 mm (11.69" x 10.06" x 2.12") (L x W x H) Entire Package Weight: 1,443 g (3.18 lb)
Package Content	GWN7001 Router, Universal Power Supply, Network Cable, Quick Installation Guide	GWN7002 Router, Universal Power Supply, Network Cable, Quick Installation Guide	GWN7003 Router, Universal Power Supply, Network Cable, Quick Installation Guide, 8 x Screws, Ground wire, 2 x Mounting brackets
Compliance	FCC, CE, RCM, IC, UKCA		