



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 GWN 7001/7002/7003 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/GWN7003 include 2 2.5 Gigabit SFP ports, 4/9 Gigabit ethernet ports, and 2 PoE output ports that allow them to provide power to other endpoints. These routers can manage themselves and up to 150 Grandstream GWN Series Wi-Fi APs thanks to an embedded controller located in the products' web user interface. These routers can also be managed with GWN.Cloud 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.



1x GbE RJ45 port with IEEE 802.3af/at PoE Input and 2x GbE RJ45 ports with 48V 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 (SDWAN supported by GWN7003)



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 unsecure 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	256MB RAM, 256MB Flash, 30K NAT sessions	256MB RAM, 256MB Flash, 30K NAT sessions	512MB RAM, 256MB Flash, 60K NAT sessions
Network Interfaces	6x Gigabit Ethernet ports <i>*All ports support WAN/LAN configurable</i>	2x 2.5 Gigabit SFP ports and 4x Gigabit Ethernet ports <i>*All ports support WAN/LAN configurable</i>	2x 2.5 Gigabit SFP ports and 9x Gigabit Ethernet ports <i>*All ports support WAN/LAN configurable</i>
NAT Throughput	2.2Gbps		
IPsec VPN Throughput	530Mbps		
Auxiliary Ports	1x USB 2.0 port, 1x 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	8x single-color LEDs for device tracking and status indication	13x 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	<ul style="list-style-type: none"> VLAN, TOS Support multiple traffic classes, filter 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	<ul style="list-style-type: none"> Application/protocol monitoring and traffic statistics Content filtering: Supports Application/URL/DNS/Web Content Filtering Safe search 		
VPN	<ul style="list-style-type: none"> 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 • GWN.Cloud offers a free cloud management platform for unlimited GWN Routers and GWN APs. • SSH for CLI • Telnet (Pending) • TR-069 • SNMP v1/v2c/v3 • SDWAN (GWN7003)		
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: 0.5A 2.5W • Output for hardware version after V2.0A: 0.8A 4W		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: 0.5A 2.5W • Output for hardware version after V2.0A: 1A 5W
PoE Input	N/A	Standard: IEEE 802.3af/at	
PoE Output	N/A	2x PoE out ports Passive 48V or IEEE802.3af	
PoE Power Budget	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
Power & Green Energy Efficiency	Universal power adaptor included Input: 100-240VAC 50-60Hz Output: 12V DC 1A (12W)	Universal power adaptor included: Input: 100-240VAC 50-60Hz Output: 24V DC 1A (24W)	Universal power adaptor included: Input: 100-240VAC 50-60Hz Output for hardware versions before V2.0: 24V DC 1A (24W) Output for hardware versions after V2.0: 24V DC 2A (48W)
Environmental	Operation: 0°C to 40°C Storage: -30°C to 60°C Humidity: 10% to 90% Non-condensing		
Physical	Unit Dimension: 210mm(L)x130mm(W)x35mm(H); Unit Weight: 453g Entire Package Dimension: 246mm(L)x235mm(W)x54mm(H); Entire Package Weight: 672g	Unit Dimension: 210mm(L)x130mm(W)x35mm(H); Unit Weight: 505g Entire Package Dimension: 246mm(L)x235mm(W)x54mm(H); Entire Package Weight: 730g	Unit Dimension: 260mm(L)x149.35mm(W)*35mm(H); Unit Weight: 1096g Entire Package Dimension: 297mm(L)x255.5mm(W)x54mm(H); Entire Package Weight: 1443g
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, 1 x ground wire, 2 x mounting brackets
Compliance	FCC, CE, RCM, IC, UKCA		