



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 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



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<br><i>*All ports support WAN/LAN configurable</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2x 2.5 Gigabit SFP ports and 4x Gigabit Ethernet ports<br><i>*All ports support WAN/LAN configurable</i>                                                     | 2x 2.5 Gigabit SFP ports and 9x Gigabit Ethernet ports<br><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"><li>• VLAN, TOS</li><li>• Support multiple traffic classes, filter by port, IP address, DSCP, and policing</li><li>• App Qos</li><li>• VoIP Prioritization</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                              |                                                                                                                                                                     |
| Firewall                        | DDNS, Port Forwarding, DMZ, UPnP, Anti-DoS, traffic rules, NAT, ALG, TURN Service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                              |                                                                                                                                                                     |
| Security                        | <ul style="list-style-type: none"><li>• Application/protocol monitoring and traffic statistics</li><li>• Content filtering: Supports Application/URL/DNS/Web Content Filtering</li><li>• Safe search</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                              |                                                                                                                                                                     |
| VPN                             | <ul style="list-style-type: none"><li>• SSL VPN Server / Client-to-Site</li><li>• IPsec VPN Client-to-Site / Site-to-Site</li><li>• PPTP VPN Server / Clien-to-Site</li><li>• L2TP Client-to-Site</li><li>• WireGuard (pending)</li><li>• IPSec Encryption: DES, 3DES, AES</li><li>• IPSec Authentication: MD5, SHA-1, SHA2-256</li><li>• IPSec Key Exchange: Main/Aggressive Mode, Pre-shared Key, DH Groups 1/2/5/14</li><li>• IPSec Protocols: ESP</li><li>• IPSec NAT Traversal</li><li>• SSL VPN Encryption: AES, DES</li><li>• SSL Authentication: MD5, SHA-1, SHA2-256, SHA2-384, SHA2-512</li><li>• SSL VPN Certificate: RSA</li><li>• PPTP Encrpytion: MPPE 40-bit, 128-bit, IPSec</li><li>• PPTP/L2TP Authentication: MS-CHAPv1/2</li></ul> |                                                                                                                                                              |                                                                                                                                                                     |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                              |                                                                                                                                                                     |
| PoE Input                       | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Standard: IEEE 802.3af/at                                                                                                                                    |                                                                                                                                                                     |
| PoE Output                      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2x PoE out ports<br>Passive 48V or IEEE802.3af                                                                                                               |                                                                                                                                                                     |
| PoE Power Budget                | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 24V DC 1A: 12.8W<br>24V DC 1.5A: 24.8W                                                                                                                       |                                                                                                                                                                     |
| Power & Green Energy Efficiency | Universal power adaptor included<br>Input: 100-240VAC 50-60Hz<br>Output: 12V DC 1A (12W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Universal power adaptor included:<br>Input: 100-240VAC 50-60Hz<br>Output: 24V DC 1A (24W)                                                                    |                                                                                                                                                                     |
| Environmental                   | Operation: 0°C to 40°C<br>Storage: -30°C to 60°C<br>Humidity: 10% to 90% Non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                              |                                                                                                                                                                     |
| Physical                        | Unit Dimension:<br>210mm(L)x130mm(W)x35mm(H);<br>Unit Weight: 453g<br>Entire Package Dimension:<br>246mm(L)x235mm(W)x54mm(H);<br>Entire Package Weight: 672g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit Dimension:<br>210mm(L)x130mm(W)x35mm(H);<br>Unit Weight: 505g<br>Entire Package Dimension:<br>246mm(L)x235mm(W)x54mm(H);<br>Entire Package Weight: 730g | Unit Dimension:<br>260mm(L)x149.35mm(W)*35mm(H);<br>Unit Weight: 1096g<br>Entire Package Dimension:<br>297mm(L)x255.5mm(W)x54mm(H);<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                              |                                                                                                                                                                     |