# GWN7072

## Tri-Band Wi-Fi 7 Router

GWN7072 is a high-performance Wi-Fi 7 (802.11be) tri-band router built for families, SOHO, and SMBs. Featuring a 10 GbE Combo port and several 2.5 GbE ports, it leverages 4K-QAM, MLO, MRU, and preamble puncturing to deliver ultra-fast and scalable connectivity. It supports intelligent mesh for seamless roaming in large areas. Engineered for both performance and protection, this model integrates multi-protocol VPNs and intelligent QoS with a robust security suite, including an intelligent firewall, application recognition, and advanced parental controls. Granular traffic management and flexible firewall policies provide enterprise users with a more secure, tailored network. Managed via a built-in web controller or centralized platforms, it delivers 10 Gbps wired throughput with professional-grade security.

# Feature Highlights

Integrates Wi-Fi 7 Certified connectivity with 4K QAM, MLO, MRU, and preamble puncturing.

Tri-band router includes 6 GHz band with 320 MHz bandwidth, offering you superb network experience with high speed and low latency.

Maximizes throughput with flexible port configurations: a 10 Gbps Combo WAN, a 2.5 Gbps WAN/LAN, and three dedicated 2.5 Gbps LAN ports.

Comprehensive VPN services provide secure, encrypted remote access to enterprise or home network without the complexity.

Connects up to 128 Wi-Fi client devices simultaneously without compromising speed.

Supports up to 16 mesh nodes with easy configuration and flexible expansion.

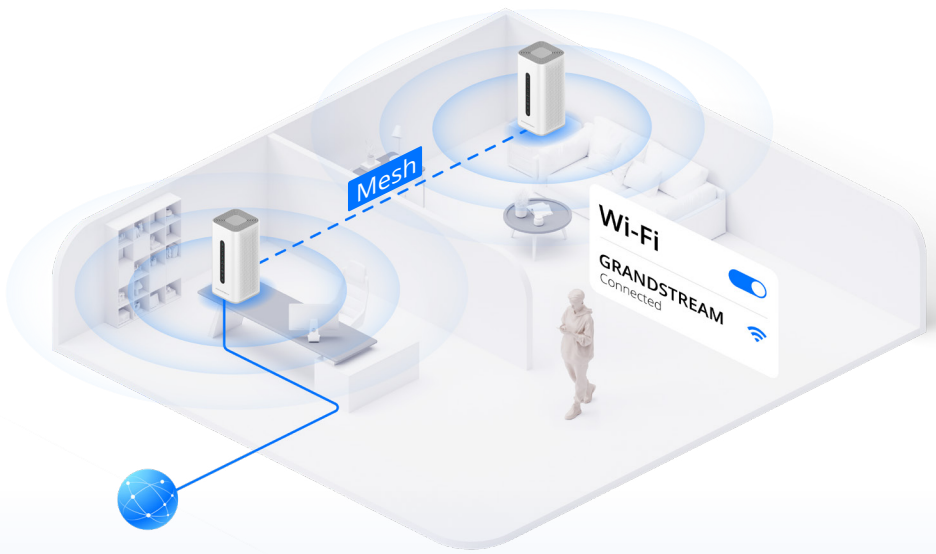
Provides robust security features, including firewalls, URL content filtering, application control, firmware upgrade and secure boot based on digital signature.

A versatile USB port supports mobile dongle dial-up, network printing, and convenient storage sharing to meet the diverse needs of modern offices and smart homes.

Besides the intuitive local Web UI , you can manage your router via GDMS, GWN Manager, the GWN app and Grandstream Home app for centralized management.

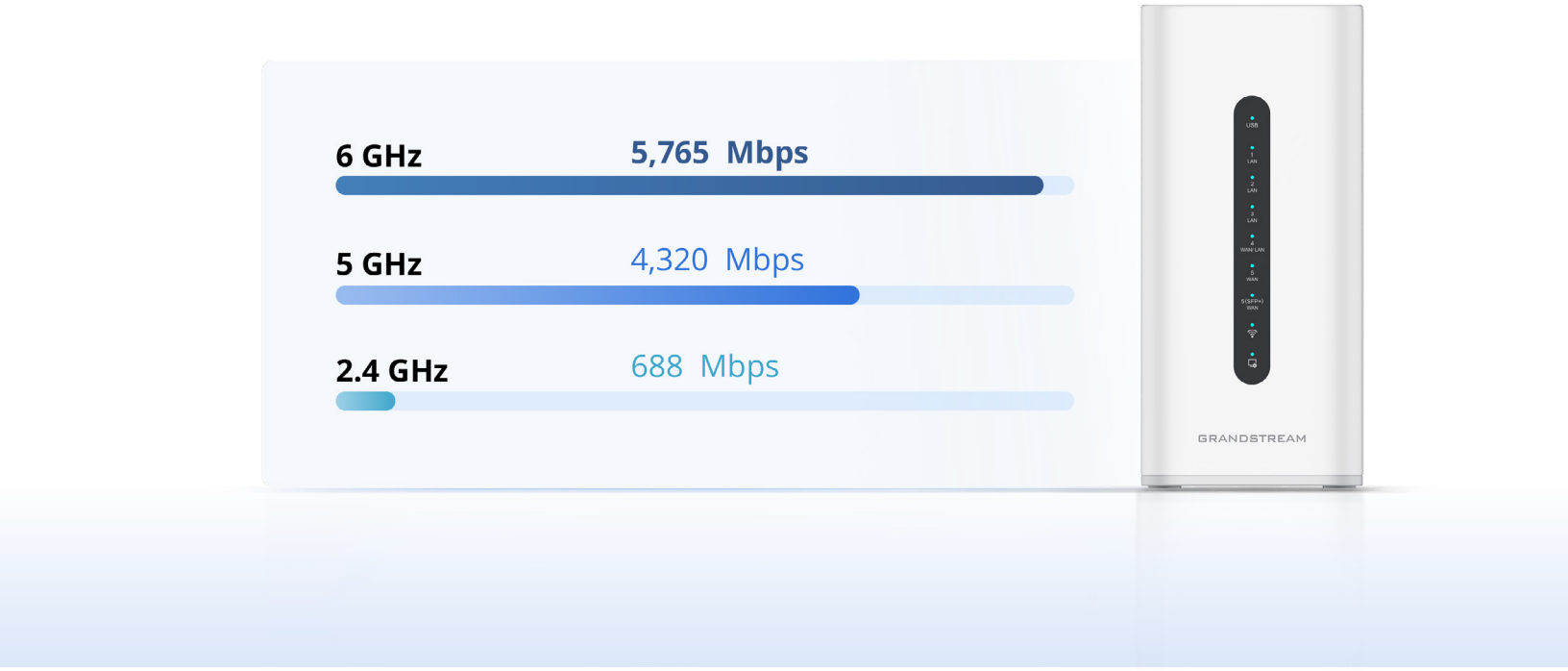
## Seamless Mesh Networking

The intelligent mesh technology enables seamless roaming and expansive coverage across your entire office or home, ensuring a rock-solid connection while eliminating frustrating signal blind spots.



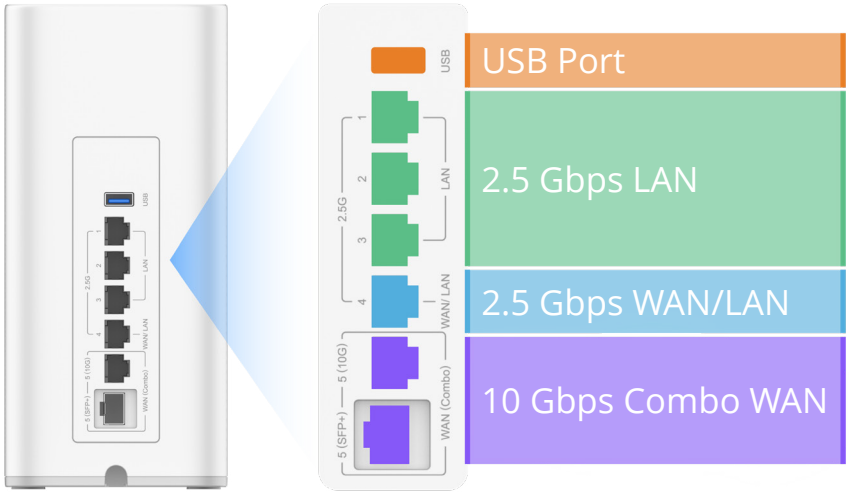
# Ultra-Fast Tri-Band Connectivity

By utilizing the 2.4 GHz, 5 GHz, and the ultra-wide 6 GHz bands, this model effectively eliminates signal interference and congestion, delivering an aggregate Wi-Fi speed of up to 11 Gbps for seamless 4K or 8K streaming, online gaming, and video conferencing.




# Versatile Port Configuration

A comprehensive port configuration eliminates bottlenecks and maximizes network throughput. Engineered for ultimate flexibility, this interface features a lightning-fast 10 Gbps Combo WAN port, a 2.5 Gbps WAN/LAN port, and three dedicated 2.5 Gbps LAN ports for users. Additionally, a versatile USB port provides expanded utility for convenient storage sharing, network printing, and USB WAN connectivity.



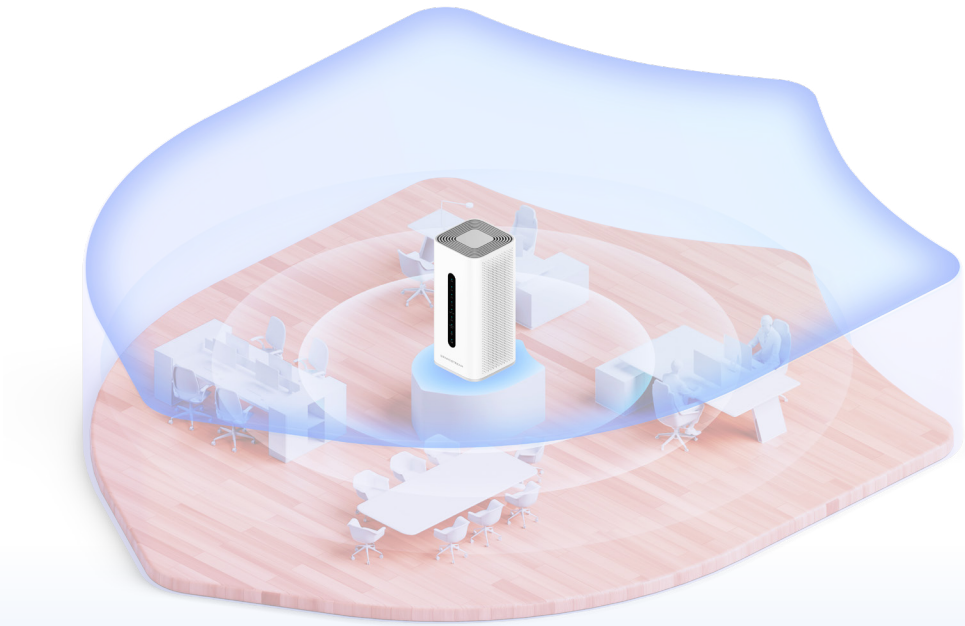
# Reliable Security Performance

Our robust security suite combines content filtering and comprehensive firewalls with enterprise-level encryption, strengthening your network's defenses against evolving cyber threats and unauthorized access.

**Firewall**

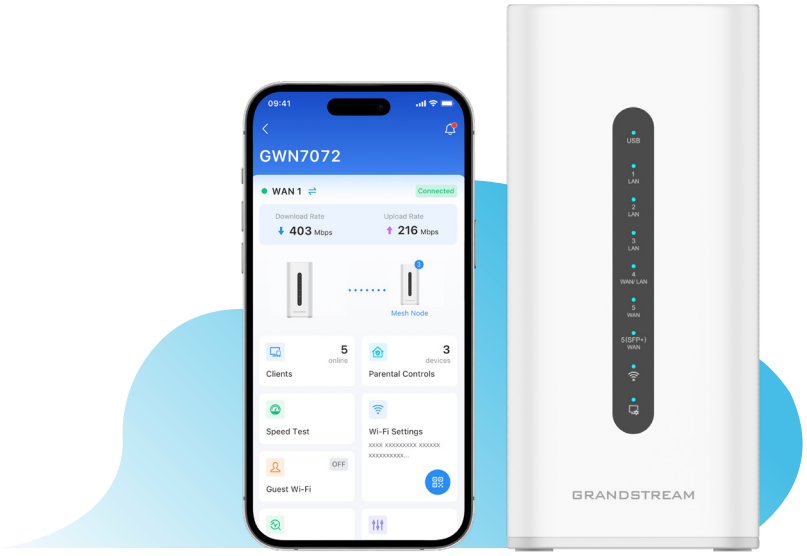
**Content Filter**
(App Control, DPI Technology)

**Security Defense**

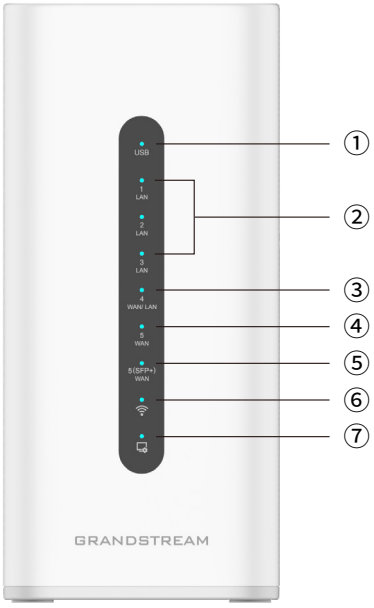


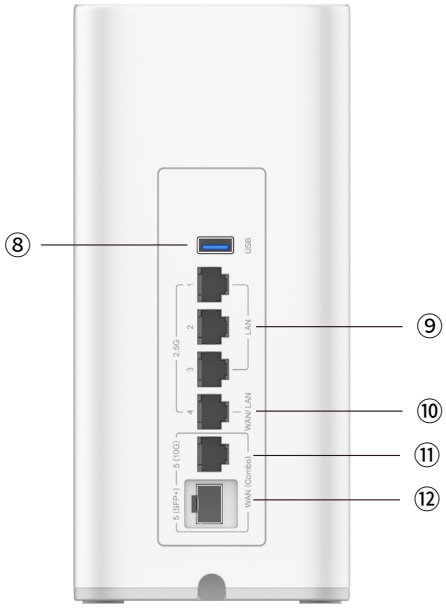
# Intelligent Network Management

While the router is in Home Mode, the Grandstream Home app allows you to view network status and safeguard your family with advanced parental controls, intelligent detection, and one-touch device upgrades.



# Hardware Overview



## GWN7072

| | | | |
|---|---|---|---|
| ① **USB LED** | ② **LAN Port LED** | ③ **WAN/LAN Port LED** | ④ **WAN Combo RJ45 Port LED** |
| ⑤ **WAN Combo SFP+ Port LED** | ⑥ **Wi-Fi LED** | ⑦ **System LED** | ⑧ **USB Port** |
| ⑨ **2.5 GbE LAN Port** | ⑩ **2.5 GbE WAN/LAN Port** | ⑪ **WAN Combo RJ45 Port** | ⑫ **WAN Combo SFP+ Port** |
| ⑬ **Reset** | ⑭ **Power Input** | ⑮ **Sync Button** | |

# Technical Specifications

| | | GWN7072 |
|---|---|---|
| **Basic** | Unit Dimension | 104 mm × 104 mm × 226 mm (4.09" × 4.09" × 8.90") |
| | Package Dimension | 325 mm × 130 mm × 110 mm (12.80" × 5.12" × 4.33") |
| | Unit Weight | 0.846 kg (1.87 lb) |
| | Package Weight | 1.314 kg (2.90 lb) |
| | Installation Methods | Desktop or Indoor Wall Mount |
| **Radio** | Antenna | 6 single frequency antennas<br>• 2.4 GHz: 2 × 3.5 dBi<br>• 5 GHz: 2 × 5.5 dBi<br>• 6 GHz: 2 × 5.5 dBi |
| | Frequency Bands | • 2.4 GHz Radio: 2,400–2,483.5 MHz<br>• 5 GHz Radio: 5,150–5,895 MHz<br>• 6 GHz Radio: 5,925–6,425 MHz<br>**Not all frequency bands can be used in all regions* |
| | Channel Bandwidth | HT20/40, VHT20/40/80, HE20/40/80/160/240, EHT20/40/80/160/320 |
| | Wi-Fi Data Rates | • 2.4 GHz<br>IEEE 802.11be: Up to 688 Mbps<br>IEEE 802.11ax: 7.3 Mbps to 574 Mbps<br>IEEE 802.11n: 6.5 Mbps to 300 Mbps<br>IEEE 802.11b: 1, 2, 5.5, 11 Mbps<br>IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br>• 5 GHz<br>IEEE 802.11be: Up to 4,320 Mbps<br>IEEE 802.11ax: 7.3 Mbps to 2,402 Mbps<br>IEEE 802.11ac: 6.5 Mbps to 1,732 Mbps<br>IEEE 802.11n: 6.5 Mbps to 600 Mbps<br>IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br>• 6 GHz<br>IEEE 802.11be: Up to 5,765 Mbps<br>IEEE 802.11ax: 8 Mbps to 4,802 Mbps<br>**Actual throughput may vary depending on many factors including environmental conditions, distance between devices, radio interference in the operating environment and mix of devices in the network* |
| | Maximum TX Power | • 2.4 GHz: 26 dBm<br>• 5 GHz: 25 dBm<br>• 6 GHz: 24 dBm<br>**Maximum power varies by country, frequency band and MCS rate* |
| | Receiver Sensitivity | • 2.4 GHz<br>802.11b: -96 dBm@1 Mbps, -88 dBm@11 Mbps<br>802.11g: -93 dBm@6 Mbps, -75 dBm@54 Mbps<br>802.11n 20 MHz: -73 dBm@MCS7; 802.11n 40 MHz:-70 dBm@MCS7<br>802.11ax 20 MHz: -65 dBm@MCS11; 802.11ax 40 MHz: -62 dBm@MCS11<br>802.11be 20 MHz: -65 dBm@MCS13; 802.11be 40 MHz: -62 dBm@MCS13<br>• 5 GHz<br>802.11a: -92 dBm@6 Mbps, -74 dBm@54 Mbps<br>802.11n 20 MHz: -73 dBm@MCS7; 802.11n 40 MHz:-70 dBm@MCS7<br>802.11ac 20 MHz: -70 dBm@MCS8; 802.11ac 40 MHz: -65 dBm@MCS9<br>802.11ac 80 MHz: -62 dBm@MCS9; 802.11ac 160 MHz: -59 dBm@MCS9<br>802.11ax 20 MHz: -64 dBm@MCS11; 802.11ax 40 MHz: -61 dBm@MCS11<br>802.11ax 80 MHz: -59 dBm@MCS11; 802.11ax 160 MHz: -55 dBm@MCS11<br>802.11be 20 MHz: -59 dBm@MCS13; 802.11be 40 MHz: -56 dBm@MCS13<br>802.11be 80 MHz: -54 dBm@MCS13; 802.11be 160 MHz: -52 dBm@MCS13<br>• 6 GHz<br>802.11ax 20 MHz: -62 dBm@MCS11; 802.11ax 40 MHz: -59 dBm@MCS11<br>802.11ax 80 MHz: -57 dBm@MCS11; 802.11ax 160 MHz:-53 dBm@MCS11<br>802.11ax 320 MHz:-51 dBm@MCS11<br>802.11be 20 MHz: -57 dBm@MCS13; 802.11be 40 MHz: -54 dBm@MCS13<br>802.11be 80 MHz: -52 dBm@MCS13; 802.11be 160 MHz: -50 dBm@MCS13<br>802.11be 320 MHz: -47 dBm@MCS13 |
| | Coverage Range | Up to 175 m² (1,883.68 ft²)<br>**Coverage range can vary based on environment* |

| | | GWN7072 |
|---|---|---|
| **Ports** | Network Ports | • 1 × 10 GbE Combo WAN Port (SFP+ or RJ45)<br>• 1 × 2.5 GbE Autosensing WAN/LAN Port<br>• 3 × 2.5 GbE LAN Ports<br>• 1 × USB 3.0 Port |
| | Other Ports | 1 × Reset Pinhole, 1 × SYNC, 1 × POWER |
| **LED** | System LED | 1 tri-color System LED and 8 × dual-color LEDs |
| **Power** | Max Power Consumption | 28.98 W |
| **Environmental Endurance** | Operating Temperature | 0 °C to 40 °C (32 °F to 104 °F) |
| | Storage Temperature | -30 °C to 60 °C (-22 °F to 140 °F) |
| | Humidity | 10%–90%, non-condensing |
| **Certification** | Compliance | CE, RCM |
| | Wi-Fi Alliance | • Network management:<br>WMM®<br>Wi-Fi Agile Multiband™<br>• Security:<br>Protected Management Frames<br>WPA2™-Enterprise<br>WPA2™-Personal<br>WPA3™-Enterprise<br>WPA3™-Personal<br>• Wi-Fi (MAC/PHY) :<br>2.4 GHz Spectrum Capabilities<br>5 GHz Spectrum Capabilities<br>Spectrum & Regulatory<br>Wi-Fi CERTIFIED 6®<br>Wi-Fi CERTIFIED 7™<br>Wi-Fi CERTIFIED™ a<br>Wi-Fi CERTIFIED™ ac<br>Wi-Fi CERTIFIED™ b<br>Wi-Fi CERTIFIED™ g<br>Wi-Fi CERTIFIED™ n<br>**Wi-Fi Alliance certifications for this model are currently under testing. Specifications are preliminary and subject to change without notice.* |

# Key Features

| | | GWN7072 |
|---|---|---|
| **Wi-Fi** | Wi-Fi Standards | Wi-Fi 7 (IEEE 802.11 a/b/g/n/ac/ax/be) |
| | SSIDs | Up to 16 SSIDs<br>• Restricts access and enhances network privacy by hiding the SSID<br>• Dynamic assignment of radio power and channels |
| | Encryption | • Open System, WPA/WPA2, WPA2, WPA2/WPA3, WPA3, WPA3-192<br>• Unique Security Certificate and Random Default Password per Device |
| | Wireless Client Capacity | Up to 128 concurrent clients |
| | Mesh | • Up to 16 nodes<br>• Compatible with all GWN mesh-enabled routers and the GWN7660EM access point for unified network expansion |

| | | GWN7072 |
|---|---|---|
| **Networking** | WAN | • Internet Connection Type: Static IP/DHCP/PPPoE/PPTP/L2TP<br>• Supports Dual WAN with Failover/Load Balance/Standby policies |
| | LAN | • DHCP Server<br>• Manually bind IP address<br>• Supports VLAN and assigning VLAN to port |
| | VPN | Supports up to 50 VPN tunnels, including:<br>• L2TP Client<br>• PPTP Client & Server<br>• IPSec Site-to-Site & Client-to-Site<br>• OpenVPN® Client & Server<br>• WireGuard® Site-to-Site & Peer-to-Site<br>• SSL VPN |
| | IPSec Throughput | 1.2 Gbps |
| | QoS | • Supports 8 queues with multiple traffic priorities and bandwidth management<br>• App QoS<br>• QoS rules |
| | Traffic Statistics | Application monitoring and traffic statistics with DPI analysis period: Daily, Weekly, and Monthly |
| | ISP | • Supports IGMP<br>• Supports IPTV/VoIP/Triple Play<br>• Supports customized settings for WAN-side VLAN |
| | USB Application | • Supports USB LTE dongle device as USB WAN<br>• Supports USB printer and network printing<br>• Supports USB storage device and file sharing |
| | NAT Throughput | 10 Gbps |
| | NAT Session | 64K |
| | NAT | • DDNS<br>• Port Forwarding<br>• DMZ<br>• UPnP |
| | Maximum Clients | 512 |
| **Security** | Firewall | • DoS Attack Defense<br>• Blocklist |
| | Firmware Security | • Anti-Hacking Secure Boot<br>• Critical Data and Control Lockdown via Digital Signatures |
| | Access Control | Supports configuring WAN-side access status and authorized IP addresses |
| | Content Control | • URL Filtering<br>• URL Classification Filtering<br>• App Filtering |
| | Parental Control | • Safe Search<br>• Customized Internet Schedule<br>• Up to 32 Parental Control Clients<br>• Website Filtering<br>• App Filtering<br>• URL Blocklist |
| | Captive Portal | Support social login, vouchers and password authentication |
| **System and Maintenance** | Working Mode | • Router Mode<br>• Wireless Bridge Mode<br>• Wireless Relay Mode |
| | Maintenance | • Configuration Backup and Restore<br>• Diagnosis Tools<br>• Feedback System<br>• System Log<br>• Intelligence Detection<br>• Auto Firmware Update |
| | Management Protocol | TR-069 |
| **Management Platform** | Local Management | Local Web UI: Embedded controller can manage itself and its mesh nodes |
| | Centralized Management | • GDMS Networking: A free cloud management platform for unlimited GWN Routers<br>• GWN Manager: Premise-based software controller<br>• GWN App: Manages the network-based devices at anytime from anywhere<br>• Grandstream Home App: A unified mobile management platform for easy control |

# Package Contents

| | | GWN7072 |
|---|---|---|
| **Standard Items** | Primary Unit | 1 × GWN7072 Tri-Band Wi-Fi 7 Router |
| | Power and Cables | 1 × 12 V Power Adapter<br>1 × Ethernet Cable |
| | Manual and License | 1 × Quick Installation Guide<br>1 × Certification Regulatory Information |

# Ordering Information

| | Item | Description |
|---|---|---|
| **GWN Router** | GWN7072 | Tri-Band Wi-Fi 7 Router |
| **Optical Receiver & Cables** | F-SM1310-20KM-1.25G | 1.25G SFP LR, Single-Mode Fiber (20 km, 1,310 nm, duplex LC, DDM) |
| | F-MM850-550M-1.25G | 1.25G SFP SR, Multi-Mode Fiber (0.3 km (OM1)/0.55 km (OM2), 850 nm, duplex LC, DDM) |
| | F-SM1310-10KM-10G | 10G SFP+ LR, Single-Mode Fiber (10 km, 1,310 nm, duplex LC, DDM) |
| | F-MM850-300M-10G | 10G SR SFP+, Multi-Mode Fiber (0.3 km, 850 nm, duplex LC, DDM) |

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