GRANDSTREAM
CONNECTING THE WORLD



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.

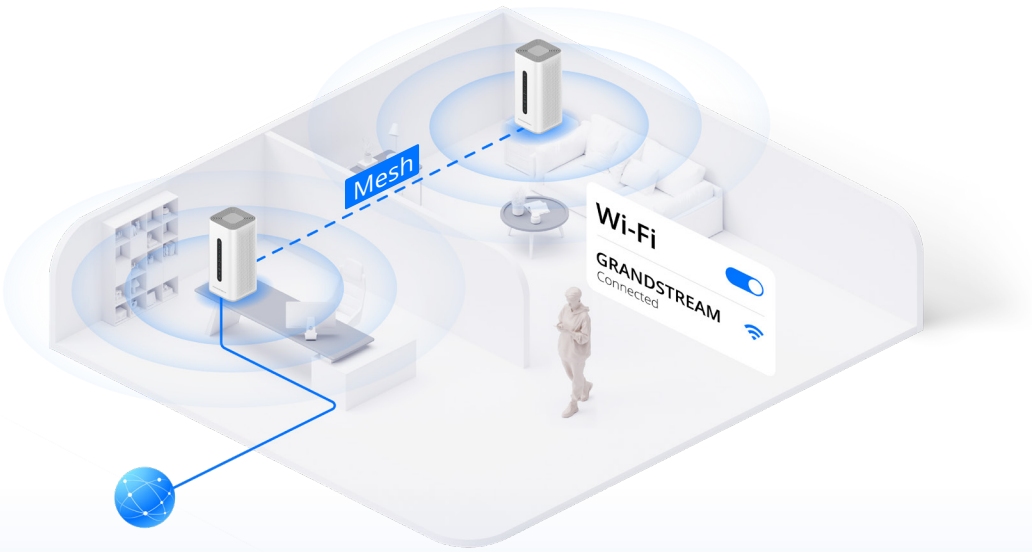
Provides robust security features, including firewalls, URL content filtering, application control, firmware upgrade and secure boot based on digital signature.

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.

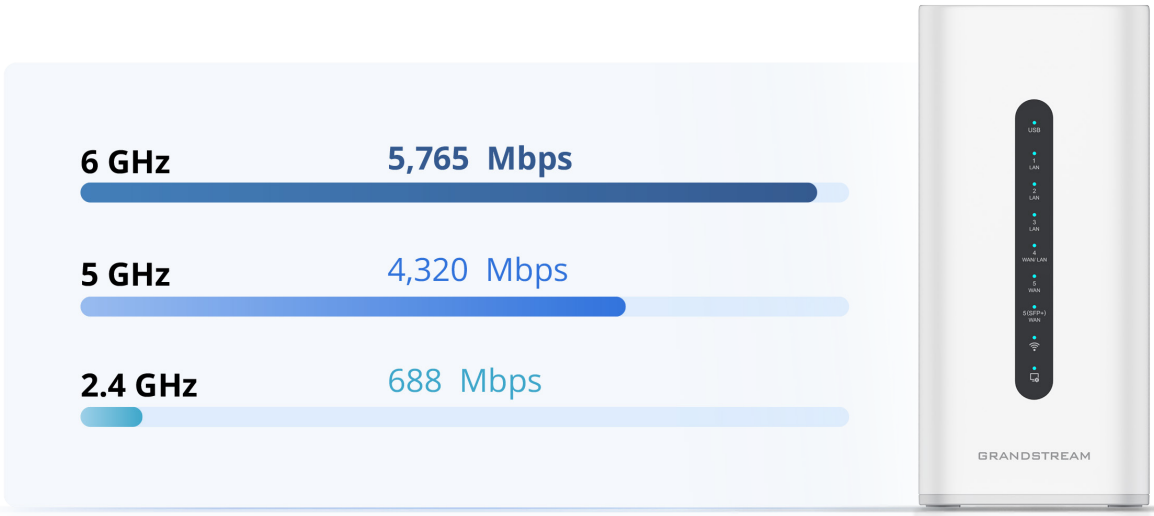
Seamless Mesh Networking

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.



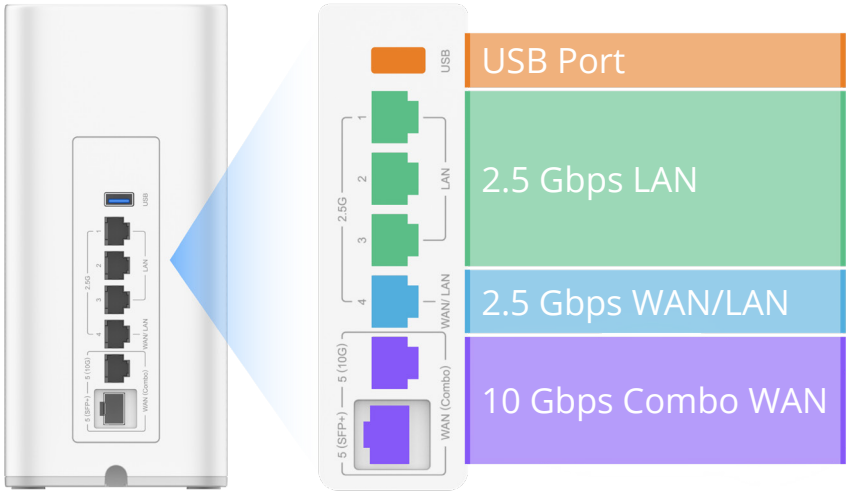
Ultra-Fast Tri-Band Connectivity

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.



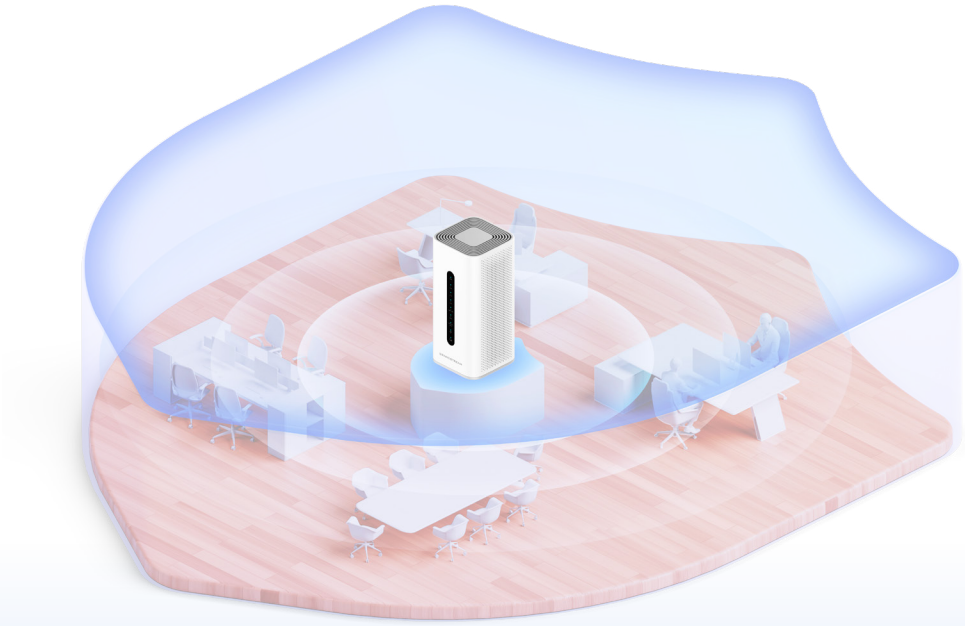
Reliable Security Performance

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

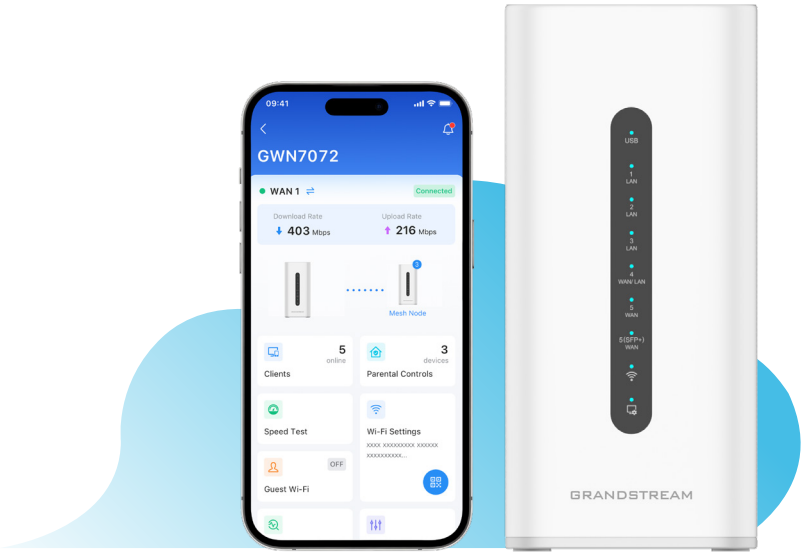
Content Filter
(App Control, DPI Technology)

Security Defense

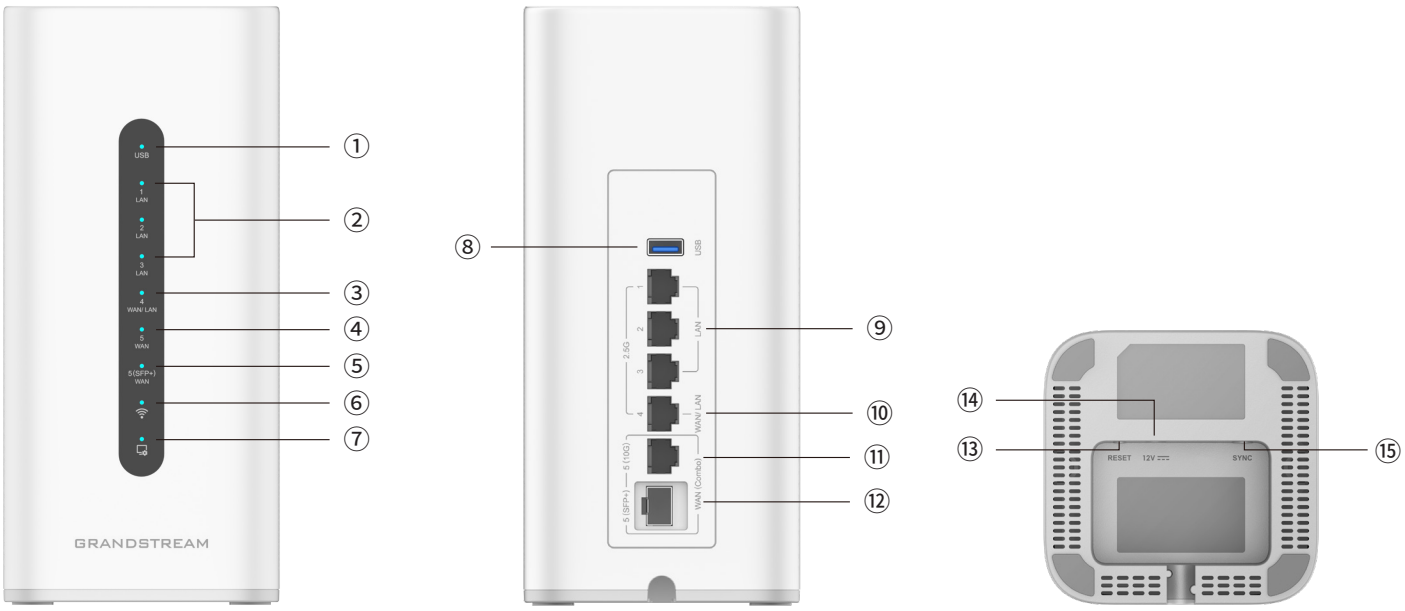


Intelligent Network Management

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 • 2.4 GHz: 2 × 3.5 dBi • 5 GHz: 2 × 5.5 dBi • 6 GHz: 2 × 5.5 dBi
	Frequency Bands	• 2.4 GHz Radio: 2,400–2,483.5 MHz • 5 GHz Radio: 5,150–5,895 MHz • 6 GHz Radio: 5,925–6,425 MHz **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 IEEE 802.11be: Up to 688 Mbps IEEE 802.11ax: 7.3 Mbps to 574 Mbps IEEE 802.11n: 6.5 Mbps to 300 Mbps IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 5 GHz IEEE 802.11be: Up to 4,320 Mbps IEEE 802.11ax: 7.3 Mbps to 2,402 Mbps IEEE 802.11ac: 6.5 Mbps to 1,732 Mbps IEEE 802.11n: 6.5 Mbps to 600 Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 6 GHz IEEE 802.11be: Up to 5,765 Mbps IEEE 802.11ax: 8 Mbps to 4,802 Mbps **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: 20 dBm (100 Milliwatts) • 5 GHz: 23 dBm (200 Milliwatts) • 6 GHz: 23 dBm (200 Milliwatts) **Maximum power varies by country, frequency band and MCS rate*
	Receiver Sensitivity	• 2.4 GHz 802.11b: -96 dBm@1 Mbps, -88 dBm@11 Mbps 802.11g: -93 dBm@6 Mbps, -75 dBm@54 Mbps 802.11n 20 MHz: -73 dBm@MCS7; 802.11n 40 MHz:-70 dBm@MCS7 802.11ax 20 MHz: -65 dBm@MCS11; 802.11ax 40 MHz: -62 dBm@MCS11 802.11be 20 MHz: -65 dBm@MCS13; 802.11be 40 MHz: -62 dBm@MCS13 • 5 GHz 802.11a: -92 dBm@6 Mbps, -74 dBm@54 Mbps 802.11n 20 MHz: -73 dBm@MCS7; 802.11n 40 MHz:-70 dBm@MCS7 802.11ac 20 MHz: -70 dBm@MCS8; 802.11ac 40 MHz: -65 dBm@MCS9 802.11ac 80 MHz: -62 dBm@MCS9; 802.11ac 160 MHz: -59 dBm@MCS9 802.11ax 20 MHz: -64 dBm@MCS11; 802.11ax 40 MHz: -61 dBm@MCS11 802.11ax 80 MHz: -59 dBm@MCS11; 802.11ax 160 MHz: -55 dBm@MCS11 802.11be 20 MHz: -59 dBm@MCS13; 802.11be 40 MHz: -56 dBm@MCS13 802.11be 80 MHz: -54 dBm@MCS13; 802.11be 160 MHz: -52 dBm@MCS13 • 6 GHz 802.11ax 20 MHz: -62 dBm@MCS11; 802.11ax 40 MHz: -59 dBm@MCS11 802.11ax 80 MHz: -57 dBm@MCS11; 802.11ax 160 MHz:-53 dBm@MCS11 802.11ax 320 MHz:-51 dBm@MCS11 802.11be 20 MHz: -57 dBm@MCS13; 802.11be 40 MHz: -54 dBm@MCS13 802.11be 80 MHz: -52 dBm@MCS13; 802.11be 160 MHz: -50 dBm@MCS13 802.11be 320 MHz: -47 dBm@MCS13
	Coverage Range	Up to 175 m² (1,883.68 ft²) **Coverage range can vary based on environment*

		GWN7072
Ports	Network Ports	• 1 × 10 GbE Combo WAN Port (SFP+ or RJ45) • 1 × 2.5 GbE Autosensing WAN/LAN Port • 3 × 2.5 GbE LAN Ports • 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: WMM® Wi-Fi Agile Multiband™ • Security: Protected Management Frames WPA2™-Enterprise WPA2™-Personal WPA3™-Enterprise WPA3™-Personal • Wi-Fi (MAC/PHY) : 2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Spectrum & Regulatory Wi-Fi CERTIFIED 6® Wi-Fi CERTIFIED 7™ Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n **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 • Restricts access and enhances network privacy by hiding the SSID • Dynamic assignment of radio power and channels
	Encryption	• Open System, WPA/WPA2, WPA2, WPA2/WPA3, WPA3, WPA3-192 • Unique Security Certificate and Random Default Password per Device
	Wireless Client Capacity	Up to 128 concurrent clients
	Mesh	• Up to 16 nodes • 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 • Supports Dual WAN with Failover/Load Balance/Standby policies
	LAN	• DHCP Server • Manually bind IP address • Supports VLAN and assigning VLAN to port
	VPN	Supports up to 50 VPN tunnels, including: • L2TP Client • PPTP Client & Server • IPSec Site-to-Site & Client-to-Site • OpenVPN® Client & Server • WireGuard® Site-to-Site & Peer-to-Site • SSL VPN
	IPSec Throughput	1.2 Gbps
	QoS	• Supports 8 queues with multiple traffic priorities and bandwidth management • App QoS • QoS rules
	Traffic Statistics	Application monitoring and traffic statistics with DPI analysis period: Daily, Weekly, and Monthly
	ISP	• Supports IGMP • Supports IPTV/VoIP/Triple Play • Supports customized settings for WAN-side VLAN
	USB Application	• Supports USB LTE dongle device as USB WAN • Supports USB printer and network printing • Supports USB storage device and file sharing
	NAT Throughput	10 Gbps
	NAT Session	64K
	NAT	• DDNS • Port Forwarding • DMZ • UPnP
	Maximum Clients	512
Security	Firewall	• DoS Attack Defense • Blocklist
	Firmware Security	• Anti-Hacking Secure Boot • Critical Data and Control Lockdown via Digital Signatures
	Access Control	Supports configuring WAN-side access status and authorized IP addresses
	Content Control	• URL Filtering • URL Classification Filtering • App Filtering
	Parental Control	• Safe Search • Customized Internet Schedule • Up to 32 Parental Control Clients • Website Filtering • App Filtering • URL Blocklist
	Captive Portal	Support social login, vouchers and password authentication
System and Maintenance	Working Mode	• Router Mode • Wireless Bridge Mode • Wireless Relay Mode
	Maintenance	• Configuration Backup and Restore • Diagnosis Tools • Feedback System • System Log • Intelligence Detection • 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 • GWN Manager: Premise-based software controller • GWN App: Manages the network-based devices at anytime from anywhere • 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 1 × Ethernet Cable
	Manual and License	1 × Quick Installation Guide 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)

www.grandstream.com
+1-617-566-9300
info@grandstream.com
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