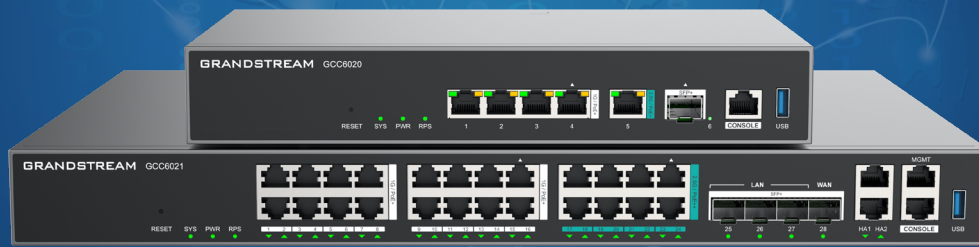




GRANDSTREAM
CONNECTING THE WORLD



UC + Networking Convergence Solutions

GCC6020 - GCC6021

The GCC6020 Series provides an extraordinary all-in-one platform that redefines the communications experience by merging your unified communications and networking solutions into a single ecosystem. These state-of-the-art devices combine the functionality of 4 distinct products, including a VPN router, a next-generation firewall, an IP PBX, and a network switch. With the GCC6020 Series, you can deploy and manage wired, wireless, and VPN networks, enforce enterprise-grade security, and utilize a market-leading collaboration platform. These flexible devices provide unified management and centralized control of all Grandstream endpoints, including Wi-Fi APs, network switches, and IP phones. The GCC6020 Series allows full UC, networking, and security solutions to be configured in minutes and managed through the cloud via the Grandstream Device Management System (GDMS), our mobile app, a local web UI, or CLI/SSH consoles. Ideal for small- to medium-sized businesses, the GCC6020 Series converges all business data, security, communication, and collaboration needs into one device, making it easier and more affordable than ever to build enterprise-class communication solutions.



Built-in IP PBX provides voice and video communications with advanced collaboration features



Built-in enterprise-grade firewall provides anti-virus, Layer 3-7 IDS/IPS, DPI, SSL detection, and more



Built-in VPN router supports 6.5 Gbps or 10 Gbps to allow easy remote access to private networks



Gigabit

Built-in network switch with 5 or 24 PoE-out ports (up to 2.5Gbps) and 10 Gigabit SFP+ ports across both models



Enhanced reliability with support for hot standby High Availability



Easily configure, deploy, and manage all Grandstream endpoint solutions from one central location



Provides advanced security protection with encrypted traffic, secure boot, unique security certificates, and more



Managed through the cloud (GDMS), mobile app, local web UI, SSH, SNMP and CLI



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

		
	GCC6020	GCC6021
CPU	Quad-core CORTEX-A73, 1.8Ghz	
Network Ports	1 × 10 Gigabit SFP+ port, 1 × 2.5 Gigabit port and 4 × Gigabit Ethernet ports <i>*All ports are WAN/LAN configurable (up to 3 WAN ports)</i>	4 × 10 Gigabit SFP+ ports, 8 × 2.5 Gigabit and 16 × Gigabit Ethernet ports <i>*All ports are WAN/LAN configurable (up to 5 WAN ports)</i>
Auxiliary Ports	1 × CONSOLE, 1 × USB3.0	1 × CONSOLE, 1 × USB3.0, 2 × HA, 1 × MGMT
Memory	4 GB RAM 4 MB NOR + 32 GB eMMC	4 GB DDR4, 25 6MB DDR3 4 MB NOR + 32 GB eMMC 8 MB NOR + 128 MB NAND
External Storage	Optional, M.2 SSD	
Router	6.5 Gbps	10 Gbps
IPsec VPN Throughput	1.3 Gbps	
NAT Sessions	1M	
NGFW Throughput (DPI+IPS)	6 Gbps	9 Gbps
PBX	50 users and 16 concurrent calls by default Upgrades available for purchase See more for PBX capacity upgrade options	
Mounting	Desktop, Wall Mount, Rack Mount	Desktop, Wall Mount
Material	Metal	
LEDs	1 × LED for SFP+, 5 × LEDs (Green) for Ethernet Ports, 5 × LEDs (Yellow) for PoE Out, 1 × LED (R/G/B) for Device Tracking & Status, 1 × LED for Main Power, 1 × LED for Redundant Power System	24 × LEDs (Green/Yellow) for Ethernet Ports / PoE Out, 4 × LEDs for SFP+, 2 × LEDs for HA, 1 × LED (R/G/B) for Device Tracking & Status, 1 × LED for Main Power, 1 × LED for Redundant Power System
Connection Type	DHCP, Static IP, PPPoE	
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: Application/protocol monitoring and traffic statistics - VoIP Prioritization	
Firewall	- DDNS, Port Forwarding, DMZ, UPnP, DoS & Spoofing defense, traffic rules, NAT - DPI, Anti-Virus, IPS/IDS, SSL Proxy - Content Control: DNS filtering, Web URL / Category / Keyword filtering, application identification and control - Email Security, Geo-IP filtering	
VPN	- IPsec VPN Client-to-Site / Site-to-Site - IPsec Encryption: 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 - PPTP VPN Server / Client - PPTP Encryption: MPPE 40-bit, 128-bit - PPTP/L2TP Authentication: MS-CHAPv1/2 - L2TP - OpenVPN® Server / Client - OpenVPN® Encryption: AES, DES - OpenVPN® Authentication: MD5, SHA-1, SHA2-256, SHA2-384, SHA2-512 - OpenVPN® Certificate: RSA - WireGuard®	
Network Management	Grandstream Device Management System (GDMS), GWN App, Local Web GUI, SSH, SNMP (v1/ v2c/v3) and CLI	
Max AP/Clients	Up to 300 GWN APs; Up to 500 Clients	Up to 300 GWN APs; Up to 1000 Clients
Power and Green Energy Efficiency	Universal power adapter included: Input 100-240 VAC, 50-60 Hz; Output: 54 VDC, 2.8 A (150 W) 5 × PoE out ports support IEEE 802.3af/at Total PoE Power Budget: 120 W RPS Input: 54 VDC / 2.8 A	Universal power adapter included: Input 100-240 VAC, 50-60 Hz; Output: 54 VDC, 7.8 A (420 W) 8 × PoE out ports support IEEE 802.3af/at/bt 16 × PoE out ports support IEEE 802.3af/at Total PoE Power Budget: 370 W RPS Input: 54 VDC / 7.8 A
Environmental	Operating Temperature: 0 °C to 45 °C (32 °F to 113 °F) Storage Temperature: -10 °C to 60 °C (14 °F to 140 °F) Humidity: 5%-95%, non-condensing	
Physical	Unit Dimension: 280 mm × 185.5 mm × 44 mm (11.02" × 7.30" × 1.73") Unit Weight: 1.5 kg (3.31 lb) Entire Package Dimension: 384 mm × 209.5 mm × 60 mm (15.12" × 8.25" × 2.36") Entire Package Weight: 2.1 kg (4.63 lb)	Unit Dimension: 440 mm × 301.5 mm × 44 mm (17.32" × 11.87" × 1.73") Unit Weight: 4.2 kg (9.26 lb) Entire Package Dimension: 557 mm × 413 mm × 138 mm (21.93" × 16.26" × 5.43") Entire Package Weight: 5.6 kg (12.35 lb)
Package Content	GCC6020/GCC6021, Universal Power Supply, Rack mount kit, Quick Installation Guide	
Compliance	FCC, CE, RCM, IC	

Features & Benefits

VPN Router

Secure Multi-WAN and Networking

- Dynamic routing and Multi-WAN capabilities
- NAT, VLAN, performance-based WAN link selection and monitoring
- Load balancing and WAN link failover
- Hardware and firewall acceleration
- DHCP server, DNS server, IGMP proxy, and TURN server
- IPv4/IPv6 support

High-speed Virtual Private Network

- WireGuard: secure remote access, site-to-site
- OpenVPN®: clients and servers
- PPTP: clients and servers
- L2TP
- IPSec: site-to-site, client-to-site
- Remote user management

Advanced QoS

- VLAN, ToS
- Multiple traffic classes, filter by port, IP address, DSCP, and policing
- App QoS
- VoIP Prioritization

Firewall

- Filter by source, destination, protocol, and port
- Stateful packet inspection
- DoS attack protection (UDP/ICMP/SYN flood)
- Enhanced spoofing defense
- For subscription firewall plans, visit:
<https://cloud.grandstream.com/firewall/plans>

Intrusion Detection & Prevention

- Signature-based scanning
- Auto rule update using configurable cron
- Real-time SSL deep inspection
- SSL blocklist & allowlist

Advanced Threat Protection

- Instant identification and immediate response to the most sophisticated attacks.
- Supports application/ protocol monitoring and traffic statistics with Deep Packet Inspection (DPI).
- Geo-IP enforcement

Network Switch

- GCC6021: 4 × 10 Gigabit SFP+ ports , 8 × 2.5 Gigabit and 16 × Gigabit Ethernet ports
- GCC6020: 1 × 10 Gigabit SFP + port, 1 × 2.5 Gigabit port and 4 × Gigabit Ethernet ports
- Smart power control to support dynamic PoE/PoE+, PoE++ (only GCC6021) power allocation per PoE port
- Supports deployment in IPv6 and IPv4 networks
- Built-in QoS allows for prioritization of network traffic

IP PBX

- Supports 50 users and 16 concurrent calls by default
- Upgrades available for purchase - [See more for PBX capacity upgrade options](#)
- Rich PBX services, including Call Forwarding, Transfer, Parking, Intercom/Paging, IVR, Emergency Calls, etc
- Built-in audio and video conferencing platform with support for Wave Desktop/Web/Android/iOS
- Fast provisioning of Grandstream SIP endpoints
- Supports multiple audio and video encodings, such as Opus, G.711 A-law/U-law, G.722, G.722.1, G.722.1C, G.723.1 5.3K/6.3K, G.726-32, G.729A/B, iLBC, GSM, T.38, H.264, H.263, H.263+, and VP8
- QoS: FEC, JB, NetEQ, ToS, DSCP
- Protocols: SIP, TCP/UDP/IP, RTP/RTCP, ICMP, ARP, DNS, SFTP, SSH, HTTPS, RTSP, STUN, SRTP, TLS, LDAP
- Full API available for third-party platform and application integration
- Supports Property Management Systems (PMS), call centers, CRM integration, and more

Management

Centralized Management

- Intuitive user interface with device management center
- Integration with Grandstream wireless access points, switches, and UC endpoints
- Visual network topology graph to display and control all nodes in a few clicks
- Quick provisioning for thousands of devices

Easy Maintenance

- Management via Grandstream Device Management System (GDMS), Local Web GUI, SSH, and SNMP (v1/v2c/v3)
- CPU and memory usage monitoring
- Comprehensive diagnostics including Ping, packet capture, external syslog, ARP table, link tracing table, and interface status
- Cyber security protection annual update service

Dynamic Reporting & Monitoring

- Multiple visual charts and graphics for dynamic reporting and real-time monitoring