



UC + Networking Convergence Solutions GCC6020 - GCC6021

The GCC6020 Series provides an extraordinary all-in-one solution that redefines the communications experience by merging your unified communications and networking solutions into one platform. These state-of-the-art devices combine the functionality of 4 products to provide an all-in-one solution that includes a VPN router, next-generation firewall, IP PBX, and network switch. With the GCC Series, you can create and manage wired, wireless, and VPN networks, provide enterprise-grade network security, and utilize a market-leading communication and collaboration platform. These flexible devices provide unified management and centralized control of all Grandstream endpoint solutions, including Wi-Fi APs, network switches, IP Phones, and more. The GCC Series allows full UC, networking, and security solutions to be configured in minutes and managed through the cloud with the Grandstream Device Management System (GDMS), and can also be managed through our mobile app, local Web UI, CLI and SSH console management. Ideal for medium to large businesses and enterprises, the GCC6020 Series provides an all-in-one platform that combines all business data, security, communication, and collaboration needs into one device – making it easier than ever to build state-of-the-art communication solutions.



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



4 or 16 Gigabit ports provide a network switch; 5 or 24 PoE out ports; both have 2.5 Gigabit and 10 Gigabit SFP+ ports



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



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



Enhanced reliability with support for hot standby High-Availability



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

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



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



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

	GCC6020	GCC6021
	1x 10 Gigabit SFP+ ports , 1 x 2.5 Gigabit and 4 x	4x 10 Gigabit SFP+ ports , 8 x 2.5 Gigabit and 16 x
Network Ports	Gigabit Ethernet ports *All ports are WAN/LAN configurable, max 3xWAN	Gigabit Ethernet ports *WAN/LAN is configurable, max 5xWAN
Auxiliary Ports	1×CONSOLE,1×USB3.0	1×CONSOLE, 1×USB3.0, 2×HA, 1×MGMT
Memory	4GB RAM, 32GB eMMC	4GB DDR4+256MB DDR3 RAM, 32GB eMMC, 128MB NAND
External Storage	M.2	
Router	6.5Gbps 10Gbps	
IPsec VPN Throughput	1.3Gbps	
NAT Sessions	320K	
NGFW Throughput (DPI+IPS)	6Gbps	9Gbps
PBX	50 users and 16 concurrent calls by default Upgrades available for purchase (<u>See more for PBX capacity upgrade options</u>)	
Mounting	Upgrades available for purchase (<u>See n</u> Desktop, Wall, and Rack-mountable	Desktop and Rack-mountable
Material	Me	
Wateria	1x LED for SFP+, 5x LED(G) for Ethernet Ports , 5x	24x LED(G/Y) for Ethernet Ports/PoE Out, 4x LED for
LEDs	LED(Y) for PoE Out, 1x LED(R/G/B) for device tracking and status indication, 1x LED for main power, 1x LED for Redundant Power System	SFP+, 2x LED for HA, 1x LED(R/G/B) for device tracking and status indication, 1x LED for main power, 1x 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	
0.5	 VLAN, TOS Support multiple traffic classes, filter by port, IP address, DSCP, and policing App QoS: Application/protocol monitoring and traffic statistics VoIP Prioritization 	
QoS		
	DDNS, Port Forwarding, DMZ, UPnP, DoS & Spoofing defense, traffic rules, NAT	
Firewall	 DPI, Anti-Virus, IPS/IDS, SSL Proxy Content Control: DNS filtering, web url/class/key words filtering, application identification and control 	
	 Email Security, Geo-IP filtering 	
	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 Encrpytion: MPPE 40-bit, 128-bit PPTP/L2TP Authentication: MS-CHAPv1/2 	
VPN		
• 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
	Universal power adaptor included: Input 100-240VAC	Universal power adaptor included: Input 100-240VAC
Power and Green Energy	50-60Hz, Output: 54VDC 2.8A (150W);	50-60Hz, Output: 54VDC 7.8A (420W); 8 x PoE out ports support IEEE 802.3 af/at/bt,
Efficiency	5 x PoE out ports support IEEE802.3af/at, Maximum PoE Wattage: 120W	16 x PoE out ports support IEEE 802.3 af/at,
	RPS Input: 54VDC/2.8A	Maximum PoE Wattage: 370W RPS Input: 54VDC/7.8A
	Operation: 0°C to 45°C	
Environmental		
	Unit Dimension: 280 x 185.5 x 44 mm	Unit Dimension: 440 x 301.5 x 44mm
Physical	Unit Weight: 1.5KG	Unit Weight: 4.2KG
,	Entire Package Dimension: 384 x 209.5 x 60 mm Entire Package Weight: 2.1KG	Entire Package Dimension: 557 x 413 x 138mm Entire Package Weight: 5.6KG
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, WAN link failover
- Hardware and firewall acceleration
- DHCP server, DNS server, IGMP proxy, 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 users 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 blacklist & whitelist

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 x SFP+ ports , 8 x 2.5 Gigabit and 16 x Gigabit Ethernet ports
- GCC6020: 1 x SFP + port, 1 x 2.5 Gigabit port and 4 x 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 (<u>See more for PBX capacity</u> <u>upgrade options</u>)
- Rich PBX services, including Call Forwarding, Transfer, Parking, Intercom/Paging, IVR, Emergency Calls, etc
- Built-in audio and video conferencing platform, supports 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, G722.1 G722.1C, G.723.1
 5.3K/6.3K, G.726-32, G.729A/B, iLBC, GSM; T.38, H.264, H.263, H263+, 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
- Grandstream wireless access point, switch and UC endpoints integration
- All nodes in the network can be displayed in a topology graph and controlled with a few clicks
- · Quickly provision of thousands of devices

Easy Maintenance

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

Dynamic Reporting & Monitoring

• Multiple types of visual charts and graphics for dynamic reporting and monitoring