GRANDSTREAM
CONNECTING THE WORLD

UC + Networking Convergence Solutions

GCC6010 - GCC6010W - GCC6011

The GCC6010 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—a VPN router, next-generation firewall, IP PBX, and a network switch or Wi-Fi access point. With the GCC6010 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 GCC6010 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 an SSH console. Ideal for small- to medium-sized businesses, the GCC6010 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

Router with built-in VPN supports 2.5 Gbps or 3 Gbps routing speeds to allow easy remote access to private networks

Gigabit

The GCC6010 and GCC6011 both feature two 2.5G SFP ports, and 5 or 10 GbE ports respectively

GCC6010W includes a built-in dual-band Wi-Fi 6 AP with 2x2 MIMO technology

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, and SNMP

Multi WAN

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

GCC6010 and GCC6011

	GCC6010	GCC6011
CPU	Quad-core CA53, 2.0 GHz	
Network Ports	2 × 2.5G SFP+ ports and 5 × Gigabit Ethernet ports **All ports are WAN/LAN configurable (up to 3 WAN ports)*	2 × 2.5G SFP+ ports and 10 × Gigabit Ethernet ports **3 Dedicated WAN ports*
Auxiliary Ports	1 × Micro-SD, 1 × USB 3.0, 1 × Reset button	
Memory	2 GB RAM, 32 GB eMMC Flash	
External Storage	N/A	Optional, M.2 SSD
Router	2.5 Gbps	
IPsec VPN Throughput	1 Gbps	
NAT Sessions	160K	
IDS/IPS	900 Mbps	
PBX	24 users and 8 concurrent calls by default Upgrades available for purchase (See more for PBX capacity upgrade options)	
PoE Output	4 × PoE ports, IEEE 802.3af/at, Maximum PoE Wattage: 36 W	
Mounting	Desktop, Wall Mount	Desktop, Wall Mount. Rack Mount
Material	Metal	
LEDs	7 × single LEDs, 4 × PoE LEDs, and 1 × RGB LED for device tracking and status indication	12 × single LEDs, 4 × PoE LEDs, and 1 × RGB LED for device tracking and status indication
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 • Support multiple traffic classes, filter 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/class/key words filtering, application identification and control	
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 Encrpytion: MPPE 40-bit, 128-bit • PPTP/L2TP Authentication: MS-CHAPv1/2 • L2TP Client-to-Site • 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), Local Web GUI, SSH, and SNMP (v1/ v2c/v3))	
Max AP/Clients	Up to 150 GWN APs; Up to 500 Clients	
Power and Green Energy Efficiency	**Universal power adapter included:** Input: 100–240 V AC, 50–60 Hz Output: 48 V DC, 1 A (48 W); 4 × PoE ports; IEEE 802.3af/at Maximum PoE Wattage: 36 W	
Environmental	Operating Temperature: 0 °C to 45 °C (32 °F to 113 °F) Storage Temperature: -30 °C to 60 °C (-22 °F to 140 °F) Storage Humidity: 5%–95%, non-condensing	
Physical	Unit Dimension: 191 mm × 101 mm × 29 mm (7.52" × 3.98" × 1.14") Unit Weight: 5 g (1.15 lb) Package Dimension: 300 mm × 130 mm × 53 mm (11.81" × 5.12" × 2.09") Package Weight: 835 g (1.84 lb)	Unit Dimension: 280 mm × 180 mm × 44 mm (11.02" × 7.09" × 1.73") Unit Weight: 1,200 g (2.65 lb) Package Dimension: 366 mm × 211 mm × 53 mm (14.41" × 8.31" × 2.09") Package Weight: 1,600 g (3.53 lb)
Package Content	GCC6010/GCC6011, Universal Power Supply, Rack mount kit (GCC6011 only), Quick Installation Guide	
Compliance	FCC, CE, RCM, IC	

GCC6010W

	GCC6010W
CPU	Quad-core CA53, 2.0 GHz
Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax
Antennas	3 individual internal antennas (2 × dual-band + 1 × single-band 5 GHz) 2.4 GHz: maximum gain 4 dBi 5 GHz: maximum gain 6 dBi
Wi-Fi Data Rates	**2.4 GHz:** IEEE 802.11ax: 7.3 Mbps to 573.5 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 802.11ax: 7.3 Mbps to 3,603 Mbps IEEE 802.11ac: 6.5 Mbps to 2,600 Mbps IEEE 802.11n: 6.5 Mbps to 450 Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 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*
Frequency Bands	2.4 GHz radio: 2,400–2,483.5 MHz (2,412–2,472 MHz is the channel center frequency range; 2,400–2,483.5 MHz is the full frequency band) 5 GHz radio: 5,150–5,895 MHz **Not all frequency bands can be used in all regions*
Channel Bandwidth	2.4 GHz: 20 and 40 MHz 5 GHz: 20, 40, 80, 160 MH
Wi-Fi and System Security	WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES); WPA3, anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device
MU-MIMO	2.4 GHz: 2×2:2 5 GHz: 3×3:3
Coverage Range	Up to 175 m (574.15 ft) in open areas **coverage range can vary based on environment. Recommended usable area is no more than 180m²*
Maximum TX Power	2.4 GHz: 28.5 dBm 5 GHz: 25.5 dBm **Maximum power varies by country, frequency band, and MCS rate*
Receiver Senstivity	**2.4 GHz** 802.11b: -97 dBm@1 Mbps, -89 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: -64 dBm@ MCS11; 802.11ax 40 MHz: -63 dBm@MCS11 **5 GHz** 802.11a: -93 dBm@6 Mbps, -75 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:- 66 dBm@MCS9; 802.11ac 80 MHz: -62 dBm@MCS9 802.11ax 20 MHz: -64 dBm@ MCS11; 802.11ax 40 MHz: -61 dBm@MCS11; 802.11ax 80 MHz: -58 dBm@MCS11 802.11ax 160 MHz: -54 dBm@MCS11
Network Ports	5 × Gigabit Ethernet ports **All ports are WAN/LAN configurable, max 3 WAN ports*
Auxiliary Ports	1 × Micro-SD, 1 × USB 3.0, 1 × Reset button
Memory	2 GB RAM, 32 GB eMMC Flash
External Storage	N/A
Router	3 Gbps
IPsec VPN Throughput	1 Gbps
NAT Sessions	160 K
IDS/IPS	900Mbps
PBX	24 users and 8 concurrent calls Upgrades available for purchase (See more for PBX capacity upgrade options)
Mounting	Desktop
Material	Plastic
LEDs	8 × LEDs for device tracking and status indication
Connection Type	DHCP, Static IP, PPPoE

GCC6010W

Network Protocols	IPv4, IPv6, IEEE802.1q, IEEE 802.1p, IEEE802.1x, IEEE802.3, IEEE 802.3u, IEEE 802.3x, IEEE802.3ab
QoS	• VLAN, TOS • Support multiple traffic classes, filter 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, ALG • DPI, Anti-Virus, IPS/IDS, SSL proxy • Content Control: DNS filtering, web URL/class/key words filtering, application identification and control
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 Encrpytion: MPPE 40-bit, 128-bit • PPTP/L2TP Authentication: MS-CHAPv1/2 • L2TP Client-to-Site • 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), Local Web GUI, SSH, and SNMP (v1/ v2c/v3)
Max AP/Clients	Up to 150 GWN APs; Up to 500 Clients
Power and Green Energy Efficiency	**Universal power adapter included:** Input: 100–240 V AC, 50–60 Hz Output: 12 V DC, 1.5 A (18 W)
Environmental	Operating Temperature: 0 °C to 45 °C (32 °F to 113 °F) Storage Temperature: -30 °C to 60 °C (-22 °F to 140 °F) Storage Humidity: 5%–95%, non-condensing
Physical	Unit Dimension: 95 mm × 95 mm × 193 mm (3.74" × 3.74" × 7.60") Unit Weight: 565 g (1.25 lb) Package Dimension: 186 mm × 127 mm × 105 mm (7.32" × 5.00" × 4.13") Package Weight: 920 g (2.03 lb)
Package Content	GCC6010W, Universal Power Supply, Network Cable, 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
- Automated rule updates via configurable schedules
- Real-time SSL deep inspection
- SSL blocklist & allowlist
- GeoIP enforcement

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)

Wi-Fi Access Point (GCC6010W only)

- Supports 500+ concurrent Wi-Fi client devices
- Dual-band (2.4 GHz and 5 GHz)
- 802.11 a/b/g/n/ac/ax wireless standards
- Wireless intrusion detection and prevention
- Virtual access points
- Captive portals

IP PBX

- Supports 24 users and 8 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