



UC + Networking Convergence Solutions GCC6010 - GCC6010W - GCC6011

The GCC6010 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 or Wi-Fi access point. 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, and SSH console management. Ideal for small-to-medium sized businesses, the GCC6010 Series provides an all-in-one platform that combines all business data, security, communication, and collaboration needs into one device – making it easier and more affordable than ever to build state-of-the-art communication solutions.





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



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



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

Built-in VPN router supports 2.5Gbps or 3Gbps 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 loadbalancing and failover to maximize connection reliability

GCC6010 and GCC6011

GCC6010 GCC6011 Network Ports 2x 2.5 Gigubit SP ports and 3x Sigubit Ethernet ports All ports are WANLAX configurable, max as WAN 2x 2.5 Gigubit SP ports and 3x Sigubit Ethernet ports All ports are WANLAX configurable, max as WAN Auxiliary Ports 12Micr 50, 13U33 3, 13Micr 57 Gate State S			
Auxiliary Ports FMANUAN configurable, max 3x WAN *3x Haed WAN Auxiliary Ports 11Morros 5, 1USB 33, 32, NReset Auxiliary Ports 208 RAM, 3206 RAM, 3206 RAM, C Rash Router 2.55bps IPsec VPN Throughput 16bps NAT Sessions 160K IDS/IPS 900Mbps PBX Upgrades available for purchase (See mores for FBX capacity upgrade potions) Pate Council Council Council Counce for FBX capacity upgrade potions) 4 x Po E out ports IEEEB02.34/rat, Maximum PoE Wartage: 36W Mounting Destop and Walmountable Metal Material Xingle LEDs, 4x PoE LEDs, and 1x RGB LED for device 12x single LEDs, 4x PoE LEDs, and 1x RGB LED for device Connection Type UPA, IPA, IPEEB02.11, IEEEB02.12, IEEEB02.13, IEEEB02.34, IEEEB			
Memory 208 RAM, 3208 eMMC Fash External Storage N/A Optional, M.2 SSD Router 2.5Gbps Optional, M.2 SSD IPsec VPN Throughput 1Gbps 160K NAT Sessions 160K 105/IPS IDS/IPS 900Mbps 900Mbps PEC Output 4 x PdE out ports, IEEE02.3afA, Maximum PdE Mulager 30W Mounting Desktop, and VA emountable Desktop, VAII, and Rack-mountable Material Kx single LEDs, Ar PdE LED, And Tx RGB LED for device 12x single LEDs, Ar PdE LED, and Tx RGB LED for device Connection Type DEXR, TAR, IEEE02.10, IEEE02.1x, IEEE02.3, IEEE 802.3u, IEEE 800.3u, IEEE 802.3u, IEEE 802.3u, I			
External Storage N/A Dptonal, M.2 SSD Roture 2.50ps IPsec VPN Throughput 1Gbps NAT Sessions 160K IDS/TPS 300Mbps PBX 12 users and 4 concurrent calls by default Upgrades available for purchase (See more Carl SeX canadity userade options) PoE Output 4 x PoE out ports, IEEB02.3afrat, Maximum PoE Watage: 36W Mounting Desktop and Wall-mountable Desktop, wall, and Rack-mountable Material Metal Metal Connection Type Tax single LEDs, A vPoE LEDs, and 1x KGB LED for device 12x single LEDs, and 1x KGB LED for device tracking and status indication Connection Type IPA4, IPA6, IEEB02.10, IEEB02.13, IEEB 02.13, IEEB 02.3a, IEEB 02.3		1xMicro-SD, 1xL	JSB 3.0, 1xReset
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NAT Sessions 150K UDS/IPS 900Mbps PBX Ugrades available for purchase (See more for PBX capacity upgrade options) PAE Output 4X POE Outports (EEB02.34rf, Maximum P62 Wattage: SW Mounting Desktop and Wall-mountable Desktop, Wall, and Rack-mountable Material Kringle LEDs, 4x POE LEDs, and 1x RGB LED for device 12x Single LEDs, 4x POE LEDs, and 1x RGB LED for device 12x Single LEDs, 4x POE LEDs, and 1x RGB LED for device 12x Single LEDs, and 1x RGB LED for device Connection Type DPCP, Static (P, PPPOE 12x Single LEDs, 2x, LEEB02.1y, LEEB02.1y, LEEB02.3, LEEB02.3x, LEEB0			
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PBX Upgrades available for purchase (See more for PBX capacity upgrade options) POE Output 4 × POE out ports, IEEE80.3.af/at, Maxium PDE Wattage: 36W Mounting Desktop and Wall-mountable Metal Material X single LEDs, Ax POE LEDs, and 1x RGB LED for device 12x single LEDs, Ax POE LEDs, and 1x RGB LED for device tracking and status indication Connection Type DFCP, Static IP, PPPOE 12x single LEDs, Ax POE LEDS, and 1x RGB LED for device tracking and status indication QCS VLAN, TOS Status indication DFCP, Static IP, PPPOE VLAN, TOS Status indication Status indication QCS VLAN, TOS Status indication Status indication DFCP, Static IP, PPPOE DFCP, Static IP, PPOE POS PApp QOS: Application/protocol monitoring and traffic statistics VLAN, TOS Statistical Control IDNS filtering, web utri/dass/key words filtering, application identification and control DPL Anti-Virus, IPS/IDS, SSL Proxy Content Control IDNS filtering, web utri/dass/key words filtering, application identification and control PERVEV PCIENT Control PERVEV Clent Control IDNS filtering, web utri/dass/key words filtering, application identification and control PERVEV PCIENT Control VIPNE VPN Server / Clent	IDS/IPS		
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• VLAN, TOS • Support multiple traffic classes, filter by port, IP address, DSCP, and policing • Support multiple traffic classes, filter by port, IP address, DSCP, and policing • VolP Prioritization Firewall • DPIS, Port Forwarding, DMZ, UPnP, DoS & Spoofing defense, traffic rules, NAT • DPI, Anti-Virus, IPS/IDS, SSL Proxy • Content Control: DNS filtering, web ur/class/key words filtering, application identification and control • PBSec VPN Client-to-Site / Site to-Site • IPSec Ker Change: Main/Aggressive Mode, Pre-shared Key, DH Groups 1/2/5/14 • IPSec Nath Traversal • PPTP VPN Server / Client • PPTP VPN Server / Client • OpenVPN® Encryption: MPE 40-bit, 128-bit • PPTP/LIP Authentication: MDS, SHA-1, SHA2-256, SHA2-384, SHA2-512 • OpenVPN® Encryption: MSE, DES • OpenVPN® Encryption: MSE, SHA-1, SHA2-256, SHA2-384, SHA2-512 • OpenVPN® Critificate: RSA • WireGuard® Max AP/Clients • OpenVPN® Encryption: ASE, DES • OpenVPN® Encryption: MDS, SHA-1, SHA2-256, SHA2-384, SHA2-512 • OpenVPN® Critificate: RSA • WireGuard® Max AP/Clients • Up to 150 GWN AFs; Up to 500 Clients Universal power adagtor included: Input 100-240V	Connection Type		_
Support multiple traffic classes, filter by port, IP address, DSCP, and policing VoIP Prioritization Prevail DDNS, Port Forwarding, DMZ, UPNP, DoS & Spoofing defense, traffic rules, NAT Pipe UPI, Anti-Virus, 19/SIDS, SLE Proxy Content Control: DNS filtering, web url/class/key words filtering, application identification and control Pisec VPN Client-to-Site / IPSec KPN Client-to-Site / Open/VPN® Encryption: MDS, SHA-1, SHA2-256, SHA2-384, SHA2-512 / Open/VPN® Encryption: MDS, SHA-1, SHA2-256, SHA2-384, SHA2-512 / Open/VPN® Encryption: AES, DES / Open/VPN® Encryptic AES, DES / Open/VPN® Encryptic AES, DES / Open/VPN® Care			
Firewall • DPI, Anti-Winz, IPS/IDS, SSL Proxy • Content Control: DNS filtering, web url/class/key words filtering, application identification and control • IPsec VPN Client-to-Site / Site-to-Site • IPsec Key Exchange: Main/Aggressive Mode, Pre-shared Key, DH Groups 1/2/5/14 • IPsec Key Exchange: Main/Aggressive Mode, Pre-shared Key, DH Groups 1/2/5/14 • IPsec Key Exchange: Main/Aggressive Mode, Pre-shared Key, DH Groups 1/2/5/14 • IPSec VTOICOIS: ESP • IPSec VTOICOIS: ESP • PPTP Encryption: MPE 40-bit, 128-bit • OpenVPN® Server / Client • OpenVPN® Encryption: AES, DES • OpenVPN® Authentication: MDS, SHA-1, SHA2-256, SHA2-384, SHA2-512 • OpenVPN® Authentication: MDS, SHA-1, SHA2-256, SHA2-384, SHA2-512 • OpenVPN® Authentication: MDS and power adaptor included: Input 100-240VAC 50-60Hz • OpenVPN® Ertificate: RSA • WireGuard® Power and Green Energy Efficiency • Content Control: 01% 11% 220% • Unit Dimension: 191% 101 × 230% • Unit Dimension: 191% 101 × 230% • Unit Dimension: 191% 101 × 230%	QoS	 Support multiple traffic classes, filter by port, IP address, DSCP, and policing App QoS: Application/protocol monitoring and traffic statistics 	
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Max AP/ClientsUp to 150 GWN APs; Up to 500 ClientsPower and Green Energy EfficiencyUniversal power adaptor included: Input 100-240VAC 50-60Hz Output: 48VDC 1A (48W); 4 x POE out ports, IEEE802.3af/at Maximum POE Wattage: 36WEnvironmentalOperation: 0°C to 45°C Storage: -30°C to 60°C Humidity: 5% to 95% Non-condensingPhysicalUnit Dimension: 191x 101 x 29mm Unit Weight: 520g Entire Package Dimension: 300 x 130 x 53 mm Entire Package Weight: 835gUnit Dimension: 280 x 180 x 44 mm Unit Weight: 1200g Entire Package Dimension: 300 x 130 x 53 mm Entire Package Dimension: 366 x 211 x 53 mm Entire Package Weight: 835gPackage ContentGCC6010/GCC6011, Universal Power Supply, Rack mount kit (GCC6011 only), Quick Installation Guide	VPN	 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 	
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Power and Green Energy EfficiencyInput 100-240VAC 50-60Hz Output: 48VDC 1A (48W); 4 x PoE out ports, IEEE802.3af/at Maximum PoE Wattage: 36WEnvironmentalOperation: 0°C to 45°C Storage: -30°C to 60°C Humidity: 5% to 95% Non-condensingPhysicalUnit Dimension: 191x 101 x 29mm Unit Weight: 520g Entire Package Dimension: 300 x 130 x 53 mm Entire Package Dimension: 300 x 130 x 53 mm Entire Package Weight: 835gUnit Dimension: 280 x 180 x 44 mm Unit Weight: 1200g Entire Package Weight: 835gPackage ContentGCC6010/GCC6011, Universal Power Supply, Rack wount kit (GCC6011 only), Quick Installation Guide		Up to 150 GWN APs; Up to 500 Clients	
Environmental Storage: -30 °C to 60 °C Humidity: 5% to 95% Non-condensing Physical Unit Dimension: 191x 101 x 29mm Unit Weight: 520g Entire Package Dimension: 300 x 130 x 53 mm Entire Package Weight: 835g Unit Dimension: 280 x 180 x 44 mm Unit Weight: 1200g Entire Package Dimension: 366 x 211 x 53 mm Entire Package Weight: 835g Package Content GCC6010/GCC6011, Universal Power Supply, Rack mount kit (GCC6011 only), Quick Installation Guide		Universal power adaptor included: Input 100-240VAC 50-60Hz Output: 48VDC 1A (48W); 4 x PoE out ports, IEEE802.3af/at	
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		FCC, CE, RCM, IC	



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	GCC6010W	
Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax	
	3 individual internal antennas (2 x dual band + 1 x single band 5G)	
Antennas	2.4GHz: maximum gain 4dBi	
	5 GHz: maximum gain 6dBi 2.4G: 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	
Wi-Fi Data Rates	 SG: IEEE 802.11ax: 7.3 Mbps to 3603 Mbps IEEE 802.11ac: 6.5 Mbps to 2600 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 	
	2.4GHz radio: 2400 – 2483.5 MHz	
Frequency Bands	(2412-2472MHz is channel central frequency range; 2400-2483.5MHz is Frequency band) 5GHz radio: 5150 - 5895 MHz *Not all frequency bands can be used in all regions	
Channel Bandwidth	2.4G: 20 and 40 MHz 5G: 20, 40, 80, 160 MHz	
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	2x2:2 2.4GHz 3x3:3 5GHz	
Maximum TX Power	5G: 25.5dBm 2.4G: 28.5dBm *Maximum power varies by country, frequency band and MCS rate	
Receiver Senstivity	2.4G 802.11b: -97dBm@1Mbps, -89dBm@11Mbps; 802.11g: -93dBm @6Mbps, -75dBm@54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz: -70dBm @MCS7; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -63dBm @MCS11	
Network Ports	5x Gigabit Ethernet ports	
	*All ports are WAN/LAN configurable, max 3x WAN 1xMicro-SD, 1xUSB 3.0, 1xReset	
	2GB RAM, 32GB eMMC Flash	
External Storage		
Router		
IPsec VPN Throughput		
NAT Sessions		
IDS/IPS		
	12 users and 4 concurrent calls by default	
PBX	Upgrades available for purchase (See more for PBX capacity upgrade options)	
Mounting	Desktop	
	Plastic Mini-Tower	
LEDs	8 x LEDs for device tracking and status indication	
Connection Type	DHCP, Static IP, PPPoE	

GCC6010W

Network Ductorelle		
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® 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 adaptor included: Input 100-240VAC 50-60Hz Output: 12VDC 1.5A (18W);	
	Operation: 0°C to 45°C Storage: -30°C to 60°C Humidity: 5% to 95% Non-condensing	
Physical	Unit Dimension: 95 x 95 x 193 mm Unit Weight: 565g Entire Package Dimension: 186 x 127 x 105 mm Entire Package Weight: 920g	
Package Content	GCC6010W, Universal Power Supply, Network Cable, Quick Installation Guide	
0	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

Intrusion Detection & Prevention

- Signature-based scanning
- Auto rule update using configurable cron
- Real-time SSL deep inspection
- SSL blacklist & whitelist
- GeoIP enforcement (FP2)

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)

- Up to 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 point
- Captive portals

IP PBX

- Supports 12 users and 4 concurrent calls by default, Upgrades available for purchase (<u>See more for PBX</u> <u>capacity 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