





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 bank-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 and networking solutions to be configured in minutes and managed through the cloud with Grandstream Device Management System (GDMS), and can also be managed through our mobile app, local Web UI, and CLI console management. Ideal for small-to-medium sized businesses, the GCC6010 Series provides an all-in-one platform that combines all business data, communication, and collaboration needs into one device – making it easier and more affordable than ever to build state-of-the-art communication solutions.



Built-in IP PBX provides voice and video communications for up to 100 users and 25 concurrent calls



Built-in enterprise-grade firewall provides anti-virus, layer 2-7 IDS/ IPS, DPI, SSL detection, and more



Built-in VPN router supports 2.5Gbps or 3Gbps to allow easy remote access to private networks



5 or 10 Gigabit ports provide a network switch for other endpoints; GCC6010/6011 also includes two 2.5 Gigabit SFP ports



GWN6010W 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 booth, unique security certificates, and more



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



Supports SD-WAN for improved network performance, increased security, and simplified network management

GCC6010 and GCC6011

Network Ports Network Ports SALI ports and \$ x Gigable Ethernee ports SALI ports and WAMILAN configurable, max 3x WAM SALI SALI SALI SALI SALI SALI SALI SALI		BRANDSTRAM DOCK	GOOD GRANGETHEAM
Network Ports Auxiliary Ports Memory Auxiliary Ports Memory External Storage Router IPsec VPN Throughput NAT Sessions IDS/IPS PBX Up to 100 users/25 concurrent calls (requires upgrade), 10 users/4 concurrent calls by default National Storage Router NAT Sessions IDS/IPS PBX Up to 100 users/25 concurrent calls (requires upgrade), 10 users/4 concurrent calls by default LEDs Connection Type Network Protocols Optional, up to 17 M.2 SSD Desktop/Wall-mounting Material LEDs Connection Type Network Protocols Optional Stubs indication Desktop/Wall-mounting Desktop/Wall-mounting Desktop/Wall-mounting Desktop/Wall-mounting Material LEDs Connection Type Network Protocols Optional Stubs indication Desktop/Wall-mounting Desktop/Wall-Rack-mounting Desktop/Wall-Rack-mou		, , , , , , , , , , , , , , , , , , ,	
Auxiliary Ports Auxiliary Ports Memory External Storage N/A Pised 3X-WAM Pised 3X-WAM Auxiliary Ports Auxiliary Ports Router I 19sec VPN Throughput NAT Sessions IDS/IPS PBX Up to 100 users/25 concurrent calls (requires upgrade), 10 users/4 concurrent calls by default Mounting Material LEDs To single LEDs, 4x PoE LEDs, and 1x RGB LED for device tracking and status indication Connection Type Network Protocols IPv4, IPv5, IEEE802.10, JEEE802.10, JEEE802.1x, IEEE802.3, IEEE 802.3x, IEEE802.3xb Vinit Province Proverding, DMZ, UPnP, DoS & Spooling defense, traffic rules, NAT JDMS, Port Powerding, DMZ, UPnP, DoS & Spooling defense, traffic rules, NAT JPMS, And Traversal PPP NP Server / Client-to-Site PPPP/LZTP VPN Server / Client-to-Site PPPP/LZTP Servar / Client-to-Site PPPP/LZTP			
External Storage N/A	Network Ports		
External Storage NA		1xMicro-SD, 1xL	JSB 3.0, 1xReset
Proceedings		2GB RAM, 32G	B eMMC Flash
Insect VPN Throughput	External Storage	N/A	Optional, up to 1T M.2 SSD
NAT Sessions 160K 900Mbps PBK 10b 100 10b 10		2.50	bps
PBX		1Gl	bps
Mounting Material LEDS As single LEDs, 4x PoE LEDs, and 1x RGB LED for device tracking and status indication from device tracking and status indication Connection Type Network Protocols Network Protocols Oos VLAN, TOS VLAN, TOS Support multiple traffic classes, filter by port, IP address, DSCP, and policing App Cos. Application/protocol monitoring and traffic statistics VOIP Prioritization DDNS, Port Forwarding, DMZ, UPPP, DoS & Sponfing defense, traffic rules, NAT Firewall Piese VPN Site-to-Site / Client-to-Site PPPTP/LZTP VPN Server / Client-to-Site PPPTP/LZTP VPN Server / Client-to-Site PRESC PROSENTE (EM Exity) Proposition Province of Priority Proposition Priority	NAT Sessions	16	0K
Material LEDs Tx single LEDs, 4x PoE LEDs, and 1x RGB LED for device 12x single LEDs, 4x PoE LEDs, and 1x RGB LED for device tracking and status indication DHCP, Static IP, PPPOE, PPTP, L2TP DHCP, Static IP, PPTP, L2TP DHCP, Static IP, Stat	IDS/IPS	9001	Иbps
Material Metal	PBX	Up to 100 users/25 concurrent calls (requires u	ipgrade), 10 users/4 concurrent calls by default
Tax single LEDs, 4x PGE LEDs, and 1x RGB LED for device tracking and status indication	Mounting	Desktop/Wall-mounting	Desktop/Wall/Rack-mounting
Tax single LEDs, 4x PGE LEDs, and 1x RGB LED for device tracking and status indication	<u>~</u>	·	etal
Cacking and statis indication DHCP, Static IP, PPPoE, PPTP, L2TP		7x single LEDs , 4x PoE LEDs, and 1x RGB LED for device	12x single LEDs, 4x PoE LEDs, and 1x RGB LED for
Network Protocols			Ü
VILAN, TOS Support multiple traffic classes, filter by port, IP address, DSCP, and policing App QoS: Application/protocol monitoring and traffic statistics VoIP Prioritization DDNS, Port Forwarding, DMZ, UPnP, DoS & Spoofing defense, traffic rules, NAT DPI, Anti-Virus, IPS/IDS, SSL deep inspection Content Control: DNS Filtering, web ur/class/key worlds filtering, application identification and control IPsec VPN Site-to-Site / Client-to-Site PPTP/LZTP VPN Server / Client-to-Site LZTP with IPsec VPN Server / Client-to-Site PPTP/LZTP VPN Server / Client-to-Site LZTP with IPsec VPN Server / Client-to-Site PPTP/LSTP VPN Server / Client-to-Site PPTP/LSTP VPN Server / Client-to-Site PPTP/LSTP Server / Client-to-Site PPTP/LSTP Server / Client-to-Site PPTP/LSTP Server / Client-to-Site PPSec Encryption: MPPE,DES,3DES,AES VPN PPSec Key Exchange; IKE: Main/Aggressive Mode, Pre-shared Key, DH Groups 1/2/5/14 PPSec NaT Traversal PPTP/LZTP Encryption: MPPE 40-bit, 128-bit, IPsec PPTP/LZTP Authentication: MS-CHAPV1/2 WireGuard9 PPTP/LZTP Authentication: MS-CHAPV1/2 WireGuard9 Grandstream Device Management System (GDMS), Local Web GUI, CLI (Console, Telnet) and SNMP (v1/ v2c/v3) Network Management Max AP/Clients Universal power adaptor included: Input 100-240VAC 50-50H2 Output: 48VDC 14 (48W); 4 x PoE out ports, IEEE802,3af/at Max, PoE Wattage: 36W Surge Protection Fivi Dimension: 191x 101 x 29mm Unit Weight: TSD Unit Dimension: 280 x 180 x 44 mm Unit Weight: TSD Entire Package Dimension: 300 x 130 x 53 mm Entire Package Weight: TSD Package Content GCC6010/GCC6011, Universal Power Supply, Network Cable, Rack mount kit (Only GCC6011), Quick Installation Guide			
Support multiple traffic classes, filter by port, IP address, DSCP, and policing App Qos's App Qos's Application/protocol monitoring and traffic statistics Firewall DDNS, Port Forwarding, DMZ, UPnP, Dos & Spoofing defense, traffic rules, NAT DDNS, Port Forwarding, DMZ, UPnP, Dos & Spoofing defense, traffic rules, NAT DDNS, Port Forwarding, DMZ, UPnP, Dos & Spoofing defense, traffic rules, NAT DDNS, Port Forwarding, DMZ, UPnP, Dos & Spoofing defense, traffic rules, NAT DDNS, Port Forwarding, DMZ, UPnP, Dos & Spoofing defense, traffic rules, NAT DDNS, Port Forwarding, DMZ, UPnP, Dos & Spoofing defense, traffic rules, NAT DDNS, Port Forwarding, DMZ, UPnP, Dos & Spoofing defense, traffic rules, NAT DDNS, Port Forwarding, DMZ, UPnP, Dos & Spoofing defense, traffic rules, NAT DDNS, Port Forwarding, DMZ, UPnP, Dos & Spoofing defense, traffic rules, NAT Prese Carcypton Spoofing defense, traffic rules, NAT Prese Portocotion (Content to Site Portocotics) Power Authorities, Portocotics (RE) Portocotics, Portocotics	Network Protocols	·	
Firewall Piper VPN Stret-o-Site / Client-to-Site PPTP/L2TP VPN Server / Client-to-Site PPTP/L2TP VPN Server / Client-to-Site PPTP/L2TP With IPsec VPN Server / Client-to-Site Piper Encryption: MDS-SIA-1, SHA2-256 IPsec Authentication: MPPE_DES_3DES_AES VPN PPTP/L2TP with IPsec VPN Server / Client-to-Site Piper Carpytion: MDS-SIA-1, SHA2-256 IPsec Authentication: MPPE_DES_3DES_AES IPsec Authentication: MPPE_DES_3DES_AES VPN PPTP/L2TP Encryption: MDS-SIA-1, SHA2-256 IPsec Authentication: MPPE_DES_3DES_AES VPN PPTP/L2TP Encryption: MPPE_DES_3DES_AES IPsec Authentication: MS-CHAPV1/2 PPTP/L2TP Encryption: MPPE_DES_3DES_AES PPTP/L2TP Encryption: MPPE_DES_3DES_3DES_3ES PPTP/L2TP Encryption: MPPE_DES_3DES_3DES_3DES_3DES_3DES_3DE	QoS	 Support multiple traffic classes, filter by port, IP address, DSCP, and policing App QoS: Application/protocol monitoring and traffic statistics 	
PPTP/LZTP VPN Server / Client-to-Site	Firewall	DPI, Anti-Virus, IPS/IDS, SSL deep inspection	
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 Max. PoE Wattage : 36WSurge Protection6KVEnvironmentalOperation: 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: TBD Entire Package Dimension: 366 x 211 x 53 mm Entire Package Weight: TBDPackage ContentGCC6010/GCC6011, Universal Power Supply, Network Cable, Rack mount kit (Only GCC6011), Quick Installation Guide	VPN	 PPTP/L2TP VPN Server / Client-to-Site L2TP with IPsec VPN Server / Client-to-Site IPsec Encryption: MD5,SHA-1,SHA2-256 IPsec Authentication: MPPE,DES,3DES,AES IPsec Key Exchange: IKE: Main/Aggressive Mode, Pre-shared Key, DH Groups 1/2/5/14 IPsec Protocols: ESP, PFS DH Groups 1/2/5/14, DPD, Local/Remote ID: IP Address, FQDN IPsec NAT Traversal PPTP/L2TP Encryption: MPPE 40-bit, 128-bit, IPsec PPTP/L2TP Authentication: MS-CHAPv1/2 	
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 Max. PoE Wattage : 36WSurge Protection6KVEnvironmentalOperation: 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: TBD Entire Package Dimension: 366 x 211 x 53 mm Entire Package Weight: TBDPackage ContentGCC6010/GCC6011, Universal Power Supply, Network Cable, Rack mount kit (Only GCC6011), Quick Installation Guide	Network Management	Grandstream Device Management System (GDMS), Local Web GUI, CLI (Console, Telnet) and SNMP (v1/ v2c/v3)	
Power and Green Energy Efficiency Input 100-240VAC 50-60Hz Output: 48VDC 1A (48W); 4 x POE out ports, IEEE802.3af/at Max. POE Wattage : 36W Surge Protection Operation: 0°C to 45°C Storage: -30°C to 60°C Humidity: 5% to 95% Non-condensing Unit Dimension: 191x 101 x 29mm Unit Weight: 520g Entire Package Dimension: 300 x 130 x 53 mm Entire Package Weight: 835g Package Content GCC6010/GCC6011, Universal Power Supply, Network Cable, Rack mount kit (Only GCC6011), Quick Installation Guide			
Physical Package Content Operation: 0°C to 45°C Storage: -30°C to 60°C Humidity: 5% to 95% Non-condensing Unit Dimension: 191x 101 x 29mm Unit Weight: 520g Entire Package Dimension: 300 x 130 x 53 mm Entire Package Weight: 835g GCC6010/GCC6011, Universal Power Supply, Network Cable, Rack mount kit (Only GCC6011), Quick Installation Guide	Efficiency	Input 100-240VAC 50-60Hz Output: 48VDC 1A (48W); 4 x PoE out ports, IEEE802.3af/at	
Find the second service of the second second service of the second second service of the second service of the second second service of the second second second service of the second second second s	Surge Protection	6KV	
Physical Unit Weight: 520g Entire Package Dimension: 300 x 130 x 53 mm Entire Package Weight: 835g Package Content Unit Weight: TBD Entire Package Dimension: 366 x 211 x 53 mm Entire Package Weight: 835g GCC6010/GCC6011, Universal Power Supply, Network Cable, Rack mount kit (Only GCC6011), Quick Installation Guide	Environmental	Storage: -30°C to 60°C	
Guide Guide	Physical	Unit Weight: 520g Entire Package Dimension: 300 x 130 x 53 mm	Unit Weight: TBD Entire Package Dimension: 366 x 211 x 53 mm
Compliance FCC, CE, RCM, IC	Package Content		
, ,	Compliance	FCC, CE, RCM, IC	

GCC6010W

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Wi Fi Standards	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	tennas 2.4GHz: maximum gain 4.5dBi 5 GHz: maximum gain 5dBi	
Wi-Fi Data Rates	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 5G: IEEE 802.11ax: 7.3 Mbps to 3603 Mbps IEEE 802.11ax: 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	
Frequency Bands	2.4GHz radio: 2400 – 2483.5 MHz (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 WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES); WPA3, anti-hacking secure boot and critical data/control	
Wi-Fi and System Security	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: 24dBm	
	*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 5G 802.11a: -93dBm @6Mbps, -75dBm @54Mbps; 802.11n: 20MHz: -73dBm @MCS7; 802.11n 40MHz: -70dBm @MCS7 802.11ac 20MHz: -70dBm@MCS8; 802.11ac: HT40:- 66dBm @MCS9; 802.11ac 80MHz: -62dBm @MCS9; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -61dBm @MCS11;802.11ax 80MHz: -58dBm @MCS11	
Network Ports	5x Gigabit Ethernet ports *All ports are WAN/LAN configurable, max 3x WAN	
Auxiliary Ports	1xMicro-SD, 1xUSB 3.0, 1xReset	
	2GB RAM, 32GB eMMC Flash	
External Storage		
Router		
IPsec VPN Throughput	1Gbps	
NAT Sessions	160K	
IDS/IPS	900Mbps	
PBX	Up to 100 users/25 concurrent calls (requires upgrade), 10 users/4 concurrent calls by default	
Mounting	Desktop	
	Plastic Mini-Tower	
LEDs	8 x LEDs for device tracking and status indication	
Connection Type	DHCP, Static IP, PPPoE, PPTP, L2TP	
		

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	
Firewall	 DDNS, Port Forwarding, DMZ, UPnP, DoS & Spoofing defense, traffic rules, NAT, ALG DPI, Anti-Virus, IPS/IDS, SSL deep inspection Content Control: DNS Filtering, web url/class/key worlds filtering, application identification and control 	
VPN	 IPsec VPN Site-to-Site / Client-to-Site PPTP/L2TP VPN Server / Client-to-Site L2TP with IPsec VPN Server / Client-to-Site IPsec Encryption: MD5,SHA-1,SHA2-256 IPsec Authentication: MPPE,DES,3DES,AES IPsec Key Exchange: IKE: Main/Aggressive Mode, Pre-shared Key, DH Groups 1/2/5/14 IPsec Protocols: ESP, PFS DH Groups 1/2/5/14, DPD, Local/Remote ID: IP Address, FQDN IPsec NAT Traversal PPTP/L2TP Encryption: MPPE 40-bit, 128-bit, IPsec PPTP/L2TP Authentication: MS-CHAPv1/2 WireGuard® 	
Network Management	Grandstream Device Management System (GDMS), Local Web GUI, CLI (Console, Telnet) 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);	
Surge Protection	6KV	
Environmental	Operation: 0°C to 45°C Storage: -30°C to 60°C Humidity: 5% to 95% Non-condensing	
Physical	Entire Package Weight: 920g	
	GCC6010W, Universal Power Supply, Network Cable, Quick Installation Guide	
Compliance	FCC, CE, RCM, IC	

Features & Benefits

VPN Router

Secure SD-WAN and Networking

- Dynamic routing and SD-WAN capabilities
- NAT, VLAN, performance-based WAN link selection and monitoring
- Load balancing, WAN link failover
- Hardware and software 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 OoS

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

Firewall

- Filter by source destination, protocol, port and OS
- 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 AP (Only GCC6010W)

- 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 10 users/4 concurrent calls by default, upgrade available for 50 users/15 concurrent calls or 100 users/25 concurrent calls
- 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, CLI (Console, Telnet) and SNMP (v1/v2c/v3)
- CPU and memory usage monitoring
- Diagnostic methods through filter reload status, firewall Info, top users, ARP table, DNS lookup, DP table, Ping, packet capture, test port, trace route, etc.
- Cyber security protection annual update service

Dynamic Reporting & Monitoring

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