# Dual Band 11ac/11n 583Mbps WIRELESS ACCESS POINT

## *Model: GC600ac*

**QUALCOMM®**

**Professional Qualcomm Chipset**

**Comply with the latest generation of 802.11ac Wi-Fi Technology**

| Hospitality | Home | Public | Generality | Industrial Park |
|---|---|---|---|---|

## Guépard GC600ac

**(Wireless Router/AP/Repeater/WISP)**

*802.11ac Wi-Fi TECHNOLOGY*

## GC600ac Dual-Band Ceiling Wireless Access Point

**GC600ac** Ceiling Wireless Access Points is specifically designed to operate in set-ups for both residential and commercial applications. Integrated Qualcomm chipset and high RF power inside to assure full Wi-Fi coverage, good choice in old buildings or modern structures. Comply with the next generation 802.11ac Wi-Fi standard: working on 2.4GHz **11n** (150 Mbps) and 5GHz **11ac** (433 Mbps) simultaneously. Wireless speed up to 600 Mbps together with Gigabit Ethernet port not only enabling modern users whom enjoy high speed surfing but also allows for very stable connectivity of control systems and the possibility of bridging and providing access simultaneously.

The very stable operating devices minimize the occurrence of auto resets and prevent faulty start-ups after resetting. The flexible with simple web interface (friendly GUI) which saving time configuration process for the installer.

## Designed with the End-user in mind

The AP is designed with the end-user in mind. The very inconspicuous exterior makes sure it can be comfortable installed in most residential and commercial spaces.

## Power over Ethernet

The **GC600ac** can be powered fully with PoE (Power over Ethernet) minimizing power cable's needs throughout the building.

The **GC600ac** can be ability configured in up to 8 separate SSID's (each SSID support tag VLAN) allow simulating different wireless networks like a guest network. These networks can be configured to give different users, different rights that are specific each user and their individual needs (e.g. access the network or dedicated parts of the network, access internet or just intranet, use VoIP, stream video, etc.).

The **GC600ac** offers multiple security modes, which makes safe data transmission. The Unified Management System based on X86 base allows network administrators to centrally manage IP Address, SSID, Security Settings, firmware upgrading etc. for all the LAN APs. What's more, this wireless access point work with Cloud Management System, easy to do remote management, advertisement and captive portal authentication, which make this AP more professional in Wi-Fi Projects.

## Applications

This high power, dual radio and high speed wireless access point can be deployed in a wide array of situations for both residential and commercial applications.

### Residential Applications

Up to 80 meters *(Maximum to 200 meters)* Wi-Fi range, GC600ac have ability providing full Wi-Fi range for residential work in Gateway operation mode like integrated all devices (wireless router, Wi-Fi repeater) which giving absolute cost effective connectivity.

### Commercial Applications

Abilities covering Wi-Fi for 6-8 hotel rooms or 100+ end users. GC600ac is matching public application of hotel, school, and shopping mall. Work with access point controller (AC), easy to management and central data configuration, together with advertisement and portal authentication.

## Specification

| HARDWARE* | |
|---|---|
| Chipset (2 Qualcomm chipsets) | Qualcomm (QCA9531 + QCA9887) |
| RF | 802.11ac/b/g/n standard, MIMO technology |
| Memory | 128MB RAM |
| Flash | 16 MB |
| Interface | 2 x RJ-45 for 10/100 Mbps WAN/LAN Port (Support IEEE 802.3af POE) |
| | 1 x Reset button (Reset & Factory Defaults) |
| | 1 x Power DC Jack |
| Power | Plug-in DC:12V/1.5A<br>PoE /WAN port: 48V/0.5A, Support IEEE 802.3at |
| Antenna | Build in 5dbi MIMO 2 antennas |
| Size | 168mm x 168mm x 32mm |
| Weight | 400g |
| **RF (Radio Frequency)** | |
| Frequency | 2.412Ghz-2.472Ghz for 2.4GHz (150Mbps)<br>5.180Ghz-5.825Ghz for 5.8GHz (433Mbps) |
| | The supported frequency band is restricted by local regulations. Accordant with technical standard of U.S (FCC), Europe (ETSI), Japan, Korea and China (in covering 2.4 GHz & 5.8GHz). |
| Modulation | OFDM = BPSK,QPSK, 16-QAM, 64-QAM |
| | DSSS = DBPSK, DQPSK, CCK |
| Throughput | 583 Mbps |
| **RF MANAGEMENT**** | |

Strong RF with Wi-Fi coverage from 60 to 80 meters (Maximized to 200 meters) radius ~ 20,000 $m^2$ area in line of sight environment or 20 meters radius same as 1,256 $m^2$ area in non-line of sight environment (Max walls to penetrate: 3-5 walls).

| SOFTWARE | |
|---|---|
| Operation Mode | **Gateway/Wireless AP/Repeater/WISP** |
| Protocol/Standard | IEEE 802.11 b/g/n (2.4G WLAN) |
| | IEEE 802.11an/ac (5.8G WLAN) |
| Wireless | Auto-Channel selection<br>Channel 1-13 for 2.4GHz<br>Channel 36-165 for 5.8GHz |
| | Multiple SSID (8 SSID: 4 SSID for 2.4G and 4SSID for 5.8G) |
| Channel Bandwidth | 20Mhz/40Mhz/80Mhz |
| Security | WEP Encryption - 64/128/152 bit |
| | WPA/WPA2 Personal (WPA-PSK using TKIP or AES) |

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| | WPA/WPA2 Enterprise (WPA-EAP using TKIP) |
|---|---|
| | Hide and broadcast SSID |
| Firewall | DoS, SPI Firewall, IP Address Filter/MAC Address Filter/Domain Filter, IP and MAC Address Binding |

## MANAGEMENT

| | |
|---|---|
| System Settings | Web-based configuration (HTTP/Telnet) |
| Firmware Upgrade | Upgrade firmware via web browser or TFTP |
| Administration | Admin Password can be configured |
| System monitoring | Status in hand , useful statistic and Event log |
| Logs | Supports local logs, logs host, logs file export |
| Reset | Reset or factory defaults |
| Backup | Restore settings & configuration of the device to local file |
| Centralized management *(for many APs: to 1000 pcs)* | Centralized management over core gateway router/ controller (GAC3000, GAC7000, GAC9500, GAC9600, GAC9800) |

## PHYSICAL PROPERTY

| | |
|---|---|
| Temperature | Working: 0°C~50°C (32°F~122°F) |
| | Storage: -40°C to 70°C (-40°F ~ 158°F) |
| Humidity | Working/ Storage: 5%~95%  RH non-condensing |

## CERTIFICATIONS



## TECHNOLOGY & QUALITY

| |
|---|
| 802.11ac Wi-Fi TECHNOLOGY/ 100% PRODUCTS CHECKED BEFORE SHIPMENT/ **12+6 MONTHS WARRANTY POLICY** |
| ASSEMBLE IN CHINA |

## PACKAGE

| |
|---|
| **GC600ac complete set/** LAN Cable/ PoE  100Mbps Adapter (IEEE 802.3af, 48V/0.5A; AC 100V/240V)/ Setting accessory |

**\* HARDWARE:** With power hardware (2 Qualcomm chipsets and high memory) - **GC600ac** have simultaneous ability accesses up to 80 users surfing internet (reading news, FB, Twitter ...) or 40 video/game online end users.

**\*\* RF MANAGEMENT: GC600ac** can be flexible for decreasing or increasing WLAN coverage (Ex: can be adjusted WLAN coverage from 20 meters to 200 meters and quantities of walls to penetrate). **GC600ac** can be flexible to extend more Wi-Fi zone without wire-connected by repeater feature.

*Recommended: user should usual keep away from running AP at least 1-2 meters.*

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