High speed access point/CPE 300 Mbps OUTDOOR WIRELESS

Model: GO300N

ADVANCED TECHNOLOGY

QUALCOMM
Professional Qualcomm Chipset

| HOSPITALITY | PUBLIC | GENERALITY | INDUSTRY |

GO300N was integrated Qualcomm's chipsets. This is an 11N 300Mbps High Power Outdoor CPE/AP/Router/ WISP, wireless distance can be 500-1.000 meters (as pair CPEs). This Outdoor CPE with the 802.11n Wi-Fi standard combined 300Mbps Wi-Fi speed over 2.4GHz (300Mbps) and equipped fast ethernet WAN port, fast ethernet data rate can be taking care 20-40 end users at the same time. Matching access demand to enjoy seamless HD movies, streaming, online gaming, wireless security and other bandwidth-intensive tasks.

GO300N with user-friendly Web management interface and multi-operation mode like: AP, WDS, Repeater, Gateway, multi-function for many appications.

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300Mbps high data rate and high conversion rate

GO300N compliant with 802.11n technology providing up to **300Mbps** data rate, 2 times faster wireless speed compared with the same products *(150Mbps)*. And NAT conversion rate >93% to achieve faster download and upload speed in a shorter time.

2.4GHz Outdoor Long Range Wireless Transmission and Coverage

Comply with 11n Technology, pure 2.4GHz band, 300mbps Data Rate, faster wireless speed with less Wi-Fi interference, signal more stable, widely be used in wireless security or long range PTP/PTMP connections.

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Working ability in harsh environments

GO300N protected by ABS case with waterproof, dust-proof ability and sunscreen shell which avoid the damage from dust, rain, high humidity and direct sunlight. So **GO300N** adapt to various environments where temperature normal can be -40℃ to 70℃. It's suitable for harsh environments.

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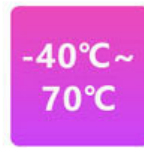
High Power for more range and stable signal

Designed in two line power amplifier on PCB board which give device obtain highest power and 14dBi sector high gain antenna integrated. That's why the Wi-Fi range can transmit 1 Km distance (a pair of CPEs). Increasing the Wi-Fi range and supplying stable Wi-Fi signal for users (between CPE and users).

GC300N Solution for Outdoor Video Data Transmission

- ✓ 2.4G Broadband Solution
- ✓ With LED Screen Display to show all information
- ✓ PTP/PTMP Connection
- ✓ Mobile Web Advance Configuration
- ✓ DC/PoE Power Available
- ✓ Simple Installation and Debugging

Power over Ethernet

GO300N has integrated IEEE 802.3af Power over Ethernet (PoE) port (10/100Mbps) for easy installation and lower cost. So it can be installed in areas where power outlets were not ready, eliminating the mess of altering existing network infrastructure.

Access Controller System

Working with WLAN controller (Guépard Core Gateway) in wireless AP operation mode, easily access advanced network settings through PC like: APs and end users status monitor, change IP address, SSID, Channel, Password, upgrade firmware, backup and restore....

Easy to do centralizing and remote management over VPNs, advertisement and multi authentication make this device more professional in WiFi Projects.

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The Wireless Distribution System

WDS Bridge. The Wireless Distribution System (WDS) allows you to connect multiple Access Points. With WDS, APs communicate with one another without wires in a standardized way. This capability is critical in providing a seamless experience for roaming clients and for managing multiple wireless networks.

Wireless Bridge(Host CPE/Client CPE/ Signal Strength/IP Address) LED Display

With Visiable LED Display and Signal strength automatic detection function for quickly build point to point and Point to Multi Point wireless connection. Easily installation and debugging. Save human cost.

① First, press "F" key enter Setting mode, then press "S" key to choose Master AP or Slave AP mode. "H" means master AP mode, "C" means slave AP mode, channel 1 in default.

② Take 2 devices, set 1 Host CPE and 1 Client CPE, Press Reset key to finish config and build connection.

Host/Client model Display

Signal Channel Display

Signal Strength Display

IP Address Display

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Multi-Function application

GO300N is a useful outdoor device which can transmit data over RF wireless at any vast scene like: Shipping center, scenic, factory, dock, construction site, parking lot, beach, IoT farm...

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Topology

1 Point to Point Connection for Elevator Monitor

Mounting 1

Guépard Networks
Connecting the world faster!

Monitor Center

- IP Camera
- Elevator Car
- CPE in Elevator Car
- Elevator Shaft
- CPE in Elevator Shaft

Mounting 2

- CPE in Elevator Shaft
- CPE in Elevator Car
- IP Camera
- Elevator Car
- Elevator Shaft
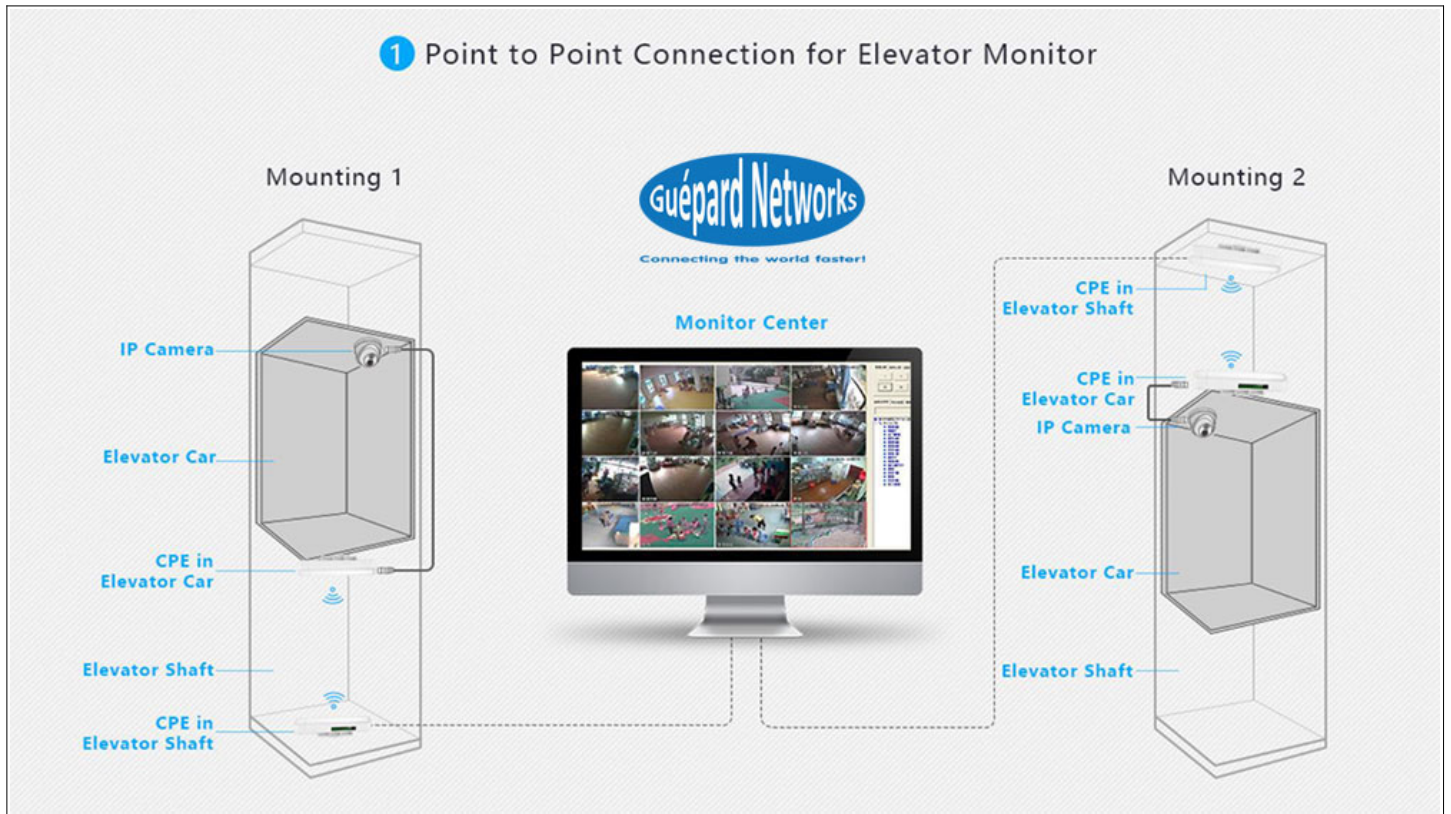
2 Point to Multi-Point Connection for Monitoring

Guépard Networks
Connecting the world faster!

IP Camera   IP Camera   IP Camera

Wireless Bridge   Wireless Bridge

Monitoring PC

Switch   DVR

IP Camera ---- Switch ---- Wireless Bridge   Wireless Bridge ---- DVR --- Monitoring PC
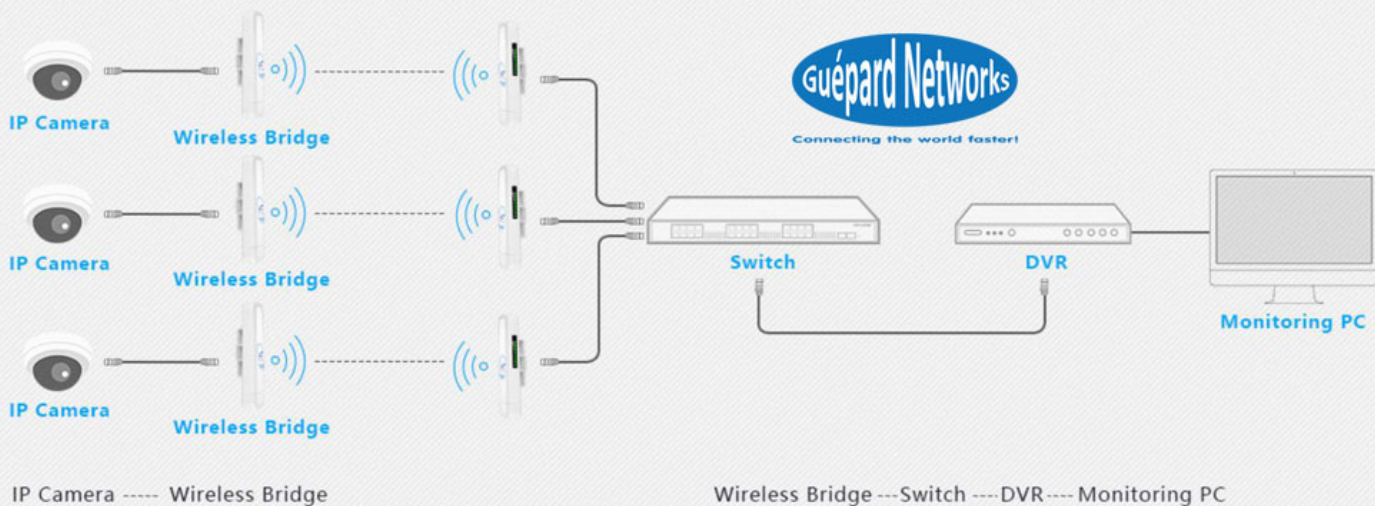
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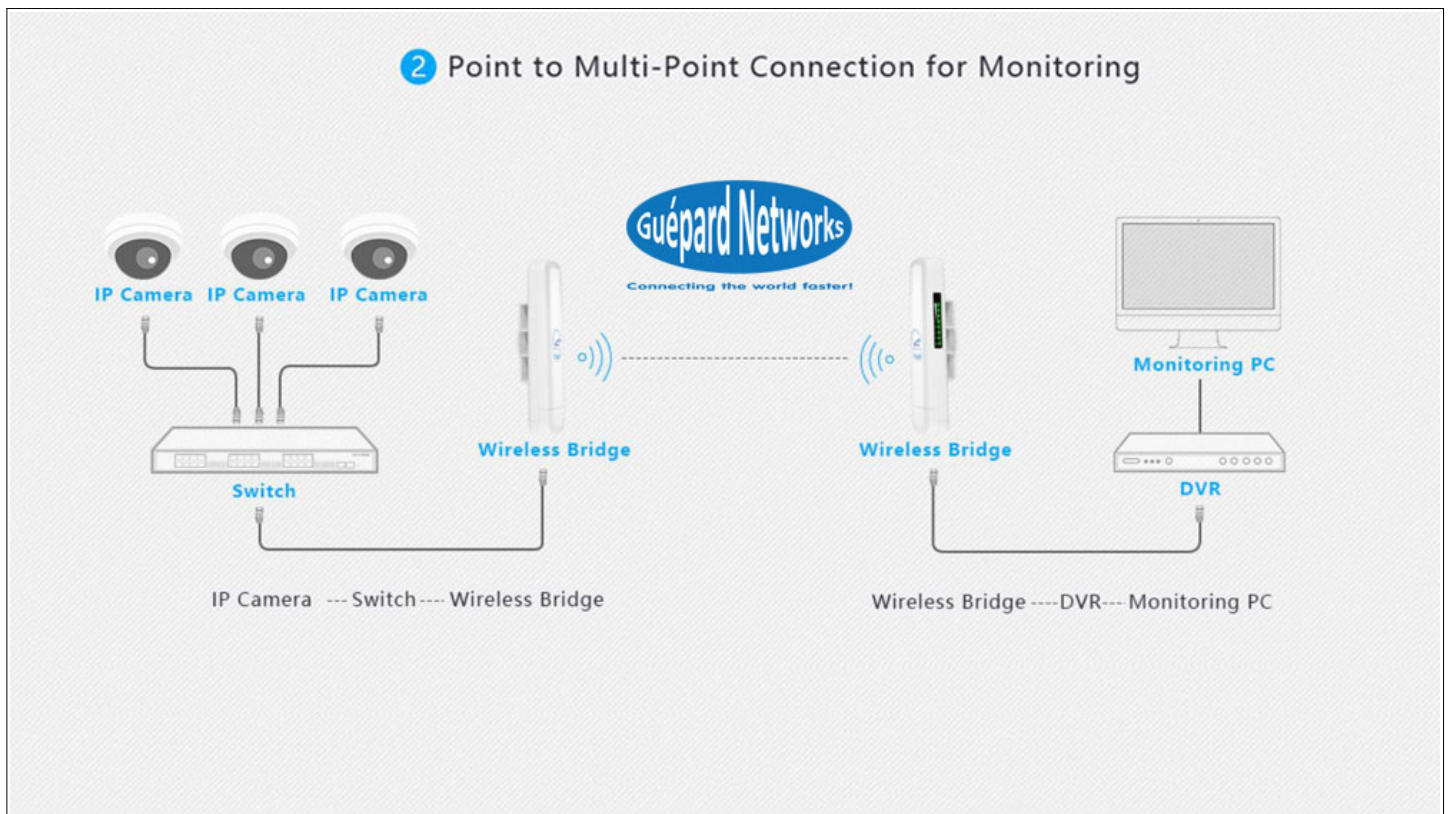
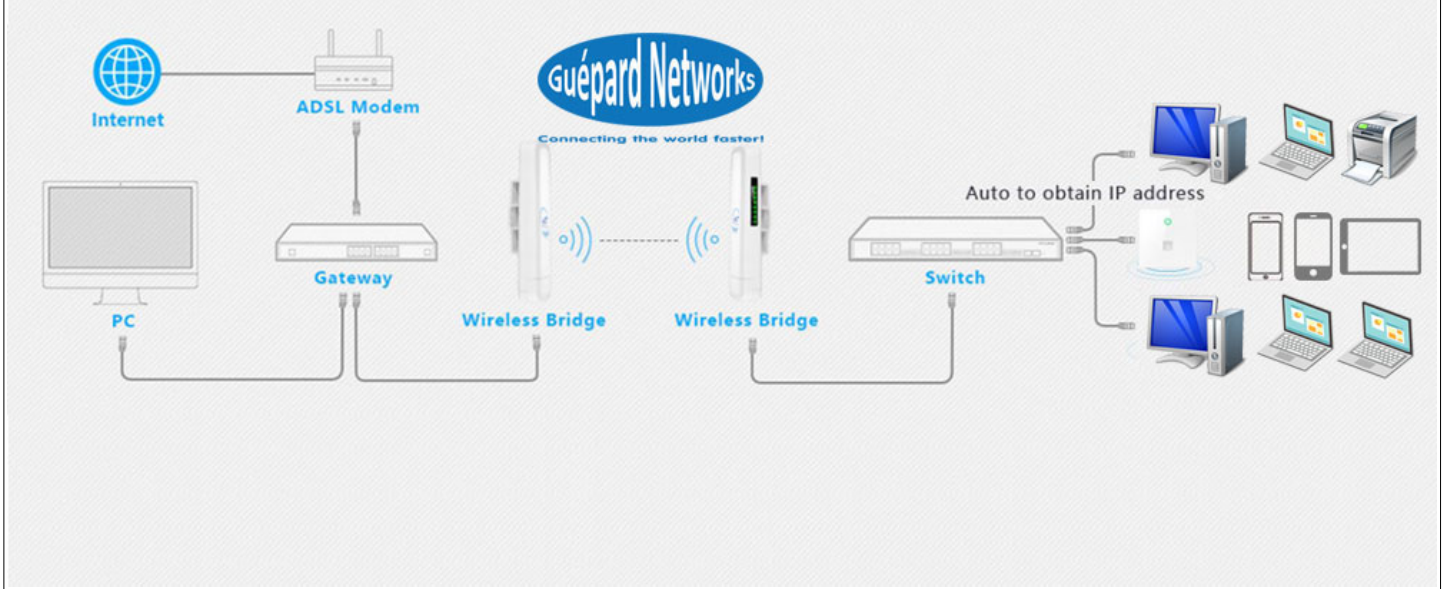③ Point to Multi-Point Connection (1 to 4)

8 | P a g e
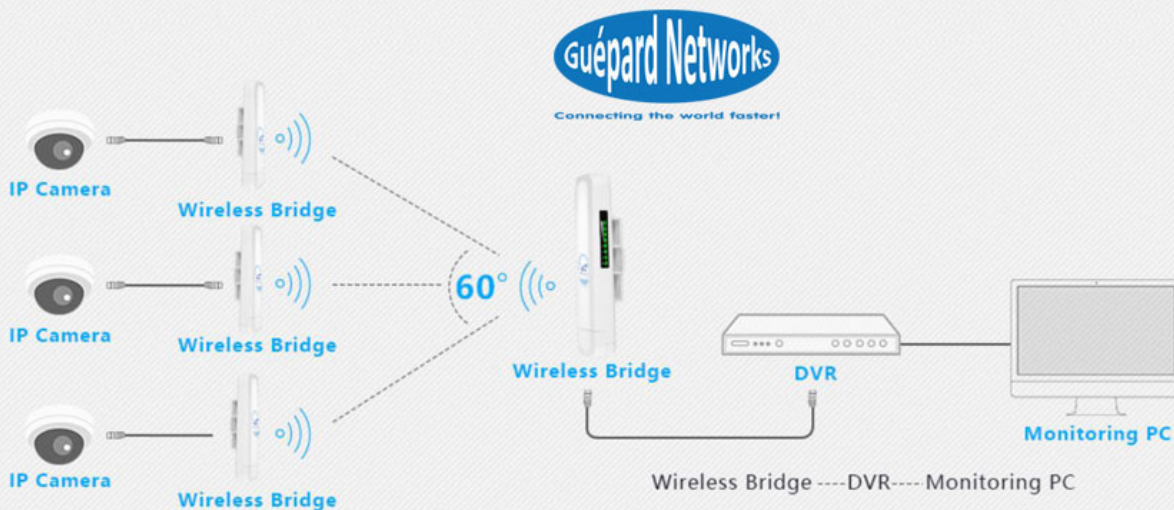
It is suggested to use the above WDS point to multi-point connection in wireless monitoring. The transmission angle is 60 degree, please adjust the angle for better performance.
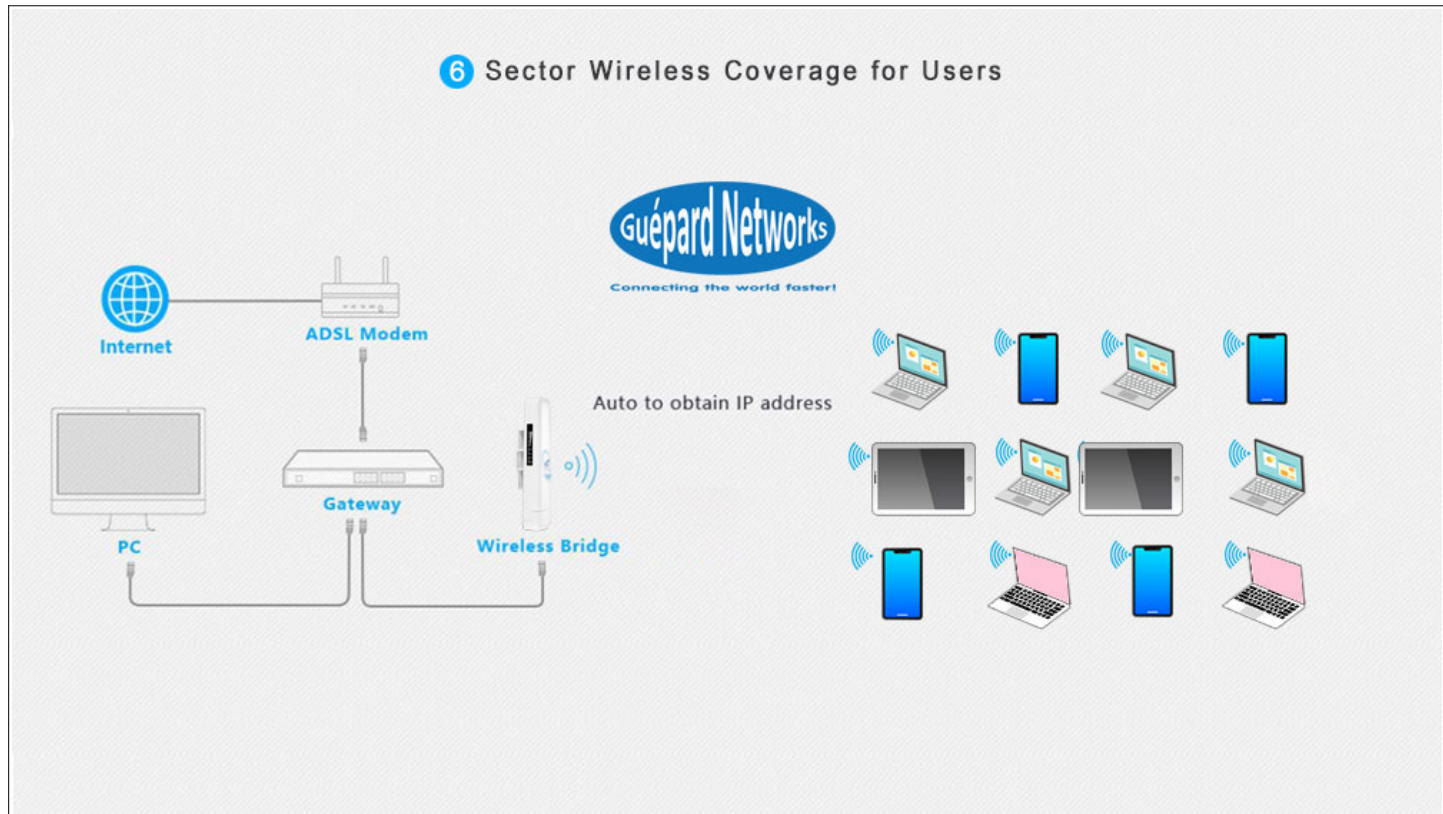

④ Multi-Point to Multi-Point Connection for Wireless Monitoring

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⑤ Point to Point Connection for Wireless Coverage

⑥ Sector Wireless Coverage for Users

High quality products with 02 years warranty

All components and accessories of device supplied by prestige manufacturers (Qualcomm, Skyworks, muRata, TDK, Windbond, Yageo, Nanya…) in USA, Japan, Taiwan and China. So you can trust Guépard products' quality which run robust, stable and endurable. That's why Guépard Networks extend period warranty from 18 months to 24 months *(02 years of warranty).*

Specification

HARDWARE	
Chipset	Qualcomm
IEEE (Wireless standard)	802.11b/g/n
Memory	64 MB DDR2 RAM
Flash	16 MB
Interface	1 x RJ-45 for 10/100Mbps WAN Port
	1 x RJ-45 for 10/100Mbps LAN Port
	1 x Reset button, press longer for default settings
Power	IEEE 802.3af standard PoE 24V
Antenna	14dBi panel antenna (2.4 GHz)
Size	315mm x 145mmx 80mm
Weight	400g

RF (Radio Frequency)	
Frequency	**2.4GHz**: 802.11b/g/n
International regulations	The supported frequency band is restricted by local regulations. Accordant with technical standard of U.S (FCC), Europe (ETSI), Russia, Japan and Korea (in covering 2.4GHz).
Bandwidth	**300 Mbps**

RF MANAGEMENT
Strong RF with Wi-Fi coverage 60^0 degree and 500 meters distance (AP/Gateway Mode) ~ 130.000m^2 area in line of sight environment. And (PTP/PTMP) backhaul creation as CPE device with 500 – 1.000 meters distance in line of sight environment.

FIRMWARE	
Operation Mode	AP/ Repeater/Gateway/ WDS Bridge
Router mode	Dynamic IP/Static IP/PPPoE/L2TP (Dual Access) /PPTP (Dual Access)
Networks	IEEE 802.3x (u/ac/af)
Wireless	IEEE 802.11 b/g/n (2.4G WLAN)
	Multiple SSID, 4 SSID in 2.4G
Authentication	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK

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	WPA/WPA2 Personal (WPA-PSK using TKIP or AES)
	WPA/WPA2 Enterprise (WPA-EAP using TKIP)
Basic Firewall	IP address filter/MAC address filter/URL filter;/Port forwarding/DMZ host

MANAGEMENT

System Settings	Web-based configuration
System monitoring	Statistic status and System log
Logs	Supports local logs, log host
Reset	Reset to factory defaults
Backup	Restore settings & configuration of the device to local file
Centralized management *(for many APs: 64 – 2.048 pcs)*	Centralized management ability over AP Controller (Guépard GAC3000, Guépard GAC7000, Guépard GAC9500, Guépard GAC9600, Guépard GAC9800). 64 – 2.048 APs

PHYSICAL PROPERTY

Temperature	Working: -40°C~70°C
Humidity	5%~95% (typical)

TECHNOLOGY & QUALITY

NEW ADVANCED TECHNOLOGY INTEGRATED BY MANY WORLD FAMOUS NETWORK PRODUCT PROPRIETIES

24 MONTHS WARRANTY POLICY AND SUPPORT SERVICE

100% PRODUCTS CHECKED TWICE BEFORE RELEASE FACTORY

GUÉPARD NETWORKS™ **Inspired of French**

*ALL COMPONENTS AND ACCESSORIES SUPPLIED BY PRESTIGE MANUFACTURERS **(QUALCOMM, SKYWORKS, muRata, TDK Windbond, Yageo, Nanya…)***

Assemble in China

CERTIFICATION

PACKAGE

Guépard GO300N/ PoE Adapter 100Mbps-48V/ mount-kit

Recommended: user should usual keep away from running AP at least 2-5 meters.

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