

Dual Band 11ac/11n 1200 Mbps AP/CPE OUTDOOR WIRELESS

Model: GO1200ac







ADVANCED TECHNOLOGY





GO1200ac was integrated Qualcomm's chipsets. This is an 11ac 1200Mbps High Power Outdoor CPE/AP/ Router/WISP, wireless distance can be 500-1.000 meters (a pair CPEs). This Outdoor CPE with the next generation 802.11ac Wi-Fi standard combined 1200Mbps Wi-Fi speed over 2.4GHz (300Mbps) and 5GHz (900Mbps) and equipped Gigabit WAN port, Gigabit Ethernet data rate can be taking care 40-80 end users at the same time. Matching access demand to enjoy seamless HD movies, streaming, online gaming, wireless security and other bandwidth-intensive tasks.





1st Hardware and Operation mode Instruction

1) Hardware interface



P1. GO1200ac physical interface

DC Power: DC power connector

LED Lights: LED Indicator of WAN port and LAN port using.

WAN/POE Port: Gigabit WAN/POE Port this port using connect with ADSL modem or Internet mainly or over POE adapter (*if do not use DC Power connector*).

LAN: Gigabit LAN Port for more cable end users.

Reset Button: it make AP revert to factory default after press and hold it 15 seconds.

LED indicator (Side)

- ... Sys: System running
- ... 2G: 2.4GHz WiFi Indicator
- ... 5GHz WiFi Indicator

2) How to supply data and power to GO1200ac?

The connection diagram showed as P1, internet cable connect to PoE adapter's LAN Port, GO1200ac's WAN/POE port connect to POE adapter's POE Port, then end users will access into GO1200ac through cable (GO1200ac's LAN port) or wireless (2.4GHz/5GHz).









P2. GO1200ac use PoE adapter: IEEE 802.3at 48V

Please note: if the Wireless AP support 24V passive PoE then the PoE adapter should be 24V Passive PoE. If the wireless AP support 48V IEEE 802.3af/at standard PoE then the PoE adapter should be 48V PoE standard.

All operation modes

Operation as diagram as below:

Gateway Mode	Repeater Mode	WISP Mode	AP Mode	Super WDS Mode
		In this mode,the internet via ADS PCs in LAN ports port.The connec using PPPOE,DH	e device is supposed to conr L/Cable Modem.The NAT is s share the same IP to ISP th tion type can be setup in W ICP client or static IP.	nect to enabled and hrough WAN /AN page by

P3. Gateway mode diagram



GO1200ac Manual



P4. AP mode diagram



P5. WISP mode diagram









P6. Repeater mode diagram

Gateway Mode	Repeater Mode	WISP Mode	AP Mode	Super WDS Mode
LAN))(((In this mode, the with other wirele interface and cal all network relat	e wireless interface can be c ess AP through WDS, and th ble interface. Without NAT, ed functions.	onnected e wireless firewall and

P7. Super WDS mode diagram

There are five operation modes on this wireless AP/CPE.





How to connect GO1200ac Wireless AP

Users can connect the PC/Laptop/Smartphone/Tablet... into this wireless AP by Wireless SSID and LAN cable: The default SSID is **Wireless 2.4G** for 2.4GHz and **Wireless 5.8G** for 5.8G, SSID's password is **66666666** (number six eight times).

2st GUI Login (Graphic User Interface)

1) Choose the proper power supply mode and operation mode

2) Assign an IP address for local PC/Workstation

Following steps will show how to assign an IP address (static IP) for PC after connect wireless AP and PC by wired cable or wireless : configure local IP address as **192.168.188.X** (X can be selected from 2-252) the same network segment as ceiling AP, subnet mask 255.255.255.0, As P3 and P4 shows.



P8. Check Control Panel>Network and Internet>Network Connections>Wi-Fi>Properties (Win 10)

🖗 Wi-Fi Properties 🛛 🗙	Internet Protocol Version 4 (TCP/IPv4) Properties
Networking Sharing	General
Connect using:	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Configure This connection uses the following items:	Ogbtain an IP address automatically Outer the following IP address: IP address: I92 . 168 . 188 . 100 Subnet mask: Z55 . 255 . 255 . 0 Default gateway: Ogbtain DNS server address automatically Outer the following DNS server addresses:
Install Uninstall Properties	Preferred DNS server:
Description	Alternate DNS server:
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Vajidate settings upon exit Ad <u>v</u> anced
OK Cancel	OK Cancel

P9. Assign IP address for PC/Workstation (Such as: 192.168.188.100)





3) Open browser Microsoft Edge, Chrome, Firefox... and input device's

default IP **192.168.188.253** (*this is IP default of Wireless AP*) on the address bar, then press Enter, a login page will pop up, input **admin** in Login Device cell, then press Enter or Login button on Admin interface.



P10. Login interface.

3rd Settings GUI (Graphic User Interface)

1) Home (Device status): After success login, then P6 Device Status will be showed:









Home (Detail of indices):

- ... Operation Mode: Current mode of device (As P6 picture above is AP mode)
- ... Uptime: device period time running until current (As P6 picture above is **48 minutes and 03 seconds**).
- ... Flow (2G WiFi) bps: Flow chart of 2.4GHz describe flow of AP upstream and downstream in real time.
- ... Device Information: ratio of CPU, Memory usage.
- ... Device Description: description space for this device (*Ex: administrator can input device name, location... which hint for maintenance*).
- ... LAN Information: showing LAN parameter such as: IP Mode, LAN IP, Subnet, AC/Gateway Address, MAC Address.
- ... 2G WiFi/5G WiFi: tab showing 2G WiFi/5G WiFi parameter such as: Status (online users), SSID, Channel, Encrypt, MAC Address.

2) Wizard: Shortcut for switching wireless AP's operation modes.

Click *Wizard* in Status page will have pop-up following page to configure the operation mode:

There are five operation mode of ceiling wireless AP and there are explanation for each operation mode for better use, see P7 below:



P12. Switching function between wireless AP/CPE's operation modes.







P13. Device is running in AP mode.

There are five operation mode of ceiling wireless AP and there are explanation for each operation mode for better use.

- ... *Gateway Mode:* In this mode, the device is supposed to connect to internet via ADSL/Cable Modem. The NAT is enable and PCs in LAN ports share the same IP to ISP through WAN port. The connection type can be setup in WAN page by using PPPOE, DHCP client or static IP.
- ... *Repeater Mode:* In this mode, the user can access wireless AP, device can be connected to other wireless network using the wireless. All interfaces are bridged together. Without NAT, firewall and all network related functions.
- ... WISP Mode: In this mode, all Ethernet ports are bridged together and wireless clients will connect ISP access point. The NAT is enabled and PCs in Ethernet port share the same IP to ISP through wireless LAN. You must set wireless to client mode first and connect to the ISP AP in Site-Survey page. The connection type can be setup in WAN page by using PPPOE, DHCP client and static IP.
- ... *AP Mode:* In this mode, the AP wireless interface and cable interface bridging together. Without NAT, firewall and all network related functions.
- ... *Super WDS Mode:* In this mode, the wireless interface can be connected with other wireless AP through WDS (*The Wireless Distribution System*), and the wireless interface and cable interface. Without NAT, firewall and all network related functions.





3) WiFi:

In **WiFi**, user can check and configure all indices: 2G WiFi, 5G WiFi, MAC ACL, WiFi Timer Off, Advanced.

■ 2G WiFi: This section allow configure 04 SSIDs in 2.4GHz frequency, such as: Basic, VAP1, VAP2, VAP3.

P14. WiFi configuration for 2.4GHz frequency.

- ... WiFi Status: Switching button is green meaning this SSID is On status. *WiFi Analyzer* button is utility for checking all APs and their broadcast channel in current region, which will help us choosing good channel to broadcasting.
- ... SSID: naming SSID for device in 2.4GHz frequency.
- ... Hide your SSID?: hiding device's SSID after setting up and connecting.
- ... BandWidth: choosing broadcasting bandwidth which will give full device bandwidth or half bandwidth with longer distance.
- ... Channel: choosing device's broadcasting channel which will have not interference with other AP's channel.
- ... Encrypt: choosing Encryption (with Password) or Open (without Password)
- ... WiFi Password: inputting password (if choosing Encryption)





5G WiFi: This section allow configure 04 SSIDs in 5.8GHz frequency, such as: Basic, VAP1, VAP2, VAP3.

INTELLIG	GENT 1200M Wireless Bridge	[→
	2G WiFi 5G WiFi MAC ACL WiFi Timer Off Advanced	
Home Wizard WiFi Network Manage	Basic VAP1 VAP2 VAP3 WiFi Status WiFi Analyzer SID Wireless 5.8G Hide your SSID? BandWidth Channel 133 Encrypt Bendyrpion WiFi Password Geddelde pour	

P15. WiFi configuration for 5.8GHz frequency.

- ... WiFi Status: Switching button is green meaning this SSID is On status. *WiFi Analyzer* button is utility for checking all APs and their broadcast channel in current region, which will help us choosing good channel to broadcasting.
- ... SSID: naming SSID for device in 5.8GHz frequency.
- ... Hide your SSID?: hiding device's SSID after setting up and connecting.
- ... BandWidth: choosing broadcasting bandwidth which will give full device bandwidth or half bandwidth with longer distance.
- ... Channel: choosing device's broadcasting channel which will have not interference with other AP's channel.
- ... Encrypt: choosing Encryption (with Password) or Open (without Password)
- ... WiFi Password: inputting password (if choosing Encryption)

■ MAC ACL: This section manage users with MAC/ACL in Access Control List. Users in this list is under device management, Disable (*Disable this function*) or allowing (*Allows the device to pass in the rule*) or denied (*Prohibited rules within the device through*) clients/users access device.





	IGENT 1	200M Wire	Iless Bridge	Advanced		€
Wizard Wisi Wifi Network		MAC .	ACL MAC ACL MAC Addine MAC Addine Mark	rd Networks	Scan Save	
-			Station List		×	
			SN Name	MAC Address	Connect Time	

P16. ACL configuration.

- ... Status: click *Add* button for adding new user. Switching button is green meaning this function is On status.
- ... MAC Address: MAC address of user/client. *Scan* button is utility for checking all users and their MACs.
- ... Mark: marking users for hint.
- ... Click *Apply* button for applying new user or *Delete* for deleting user.
- WiFi Timer Off: This function will set Off period of device.



P17. WiFi Timer Off.





- ... WiFi Timer Off: Switching button is green meaning this function is running.
- Time Frame: choosing time frame.
- Click *Apply* button for finish.
- Advanced

INTEL	LIGENT 12	00M Wireless Brid	ge			E⇒
f	2G WiFi	5G WiFi MAC ACL	WiFi Timer Off	Advanced		
Home	Advanced					
		Country Region			2G Channel (1-13);5G Channel (36-64),(100-128),(132-140)	
Manuel		2G Mode	11N/G			
Wizard		5 <mark>G</mark> Mode	11AN			
R		Multicast Fast	OFF			
WiFi		Maximum for per AP	64		(Range 1-64)	
		WLAN Partition	OFFICIA	ra Noti	Marks	
		Short GI	CALINO	IN NCL	WOINS	
Network		Coverage Threshold	-90		(-95dBm~-65dBm)	
		Packet Threshold	1200		(256-2346)	
		KIS Ihreshold	1201 May		(0-2347)	
Manage		Dreferred SG	ON	× U		
		DFS	ON			
		2G Distance	-0		0.5km	
		5G Distance			0.5km	
					Apply	

P18. WiFi Advanced configuration.

- ... Country Region: Set channels for 2.4GHz/5.8GHz match country policy (*Reference:* <u>https://en.wikipedia.org/wiki/List_of_WLAN_channels</u>)
- ... 2G Mode: choosing 802.11 protocol standards for 2.4GHz frequency, such as: 802.11 b/g/n.
- ... 5G Mode: choosing 802.11 protocol standards for 5.8GHz frequency, such as: 802.11 a/an/ac.
- ... Multicast Fast: On/Off this function (definition reference: https://en.wikipedia.org/wiki/Multicast).
- ... Maximum for per AP: allow max users connect per AP.
- ... WLAN Partition: This feature effectively segregates the wireless band of your choice from the rest of the Network. With Ethernet-to-WLAN Access disabled.
- ... Short GI (switch On/Off): Guard Interval is intended to avoid signal loss from multi-path effect.
- ... Coverage Threshold: This function allow GO1200ac's antennas improving more sensitive to client devices. Which help GO1200ac can keep tight connection with clients and improving broadcasting distance.
- ... Packet Threshold: This value is used to set the maximum size of packet a client can send. Smaller packets improve reliability, but they will decrease performance. Unless you're facing problems with an unreliable network, reducing the fragmentation threshold is not recommended. Make sure it is set to the default settings (recommend 2346).







- ... RTS Threshold: RTS stands for 'Request to send' and is send by the client to the access point it essentially asks for permission to send the next data packet. The lower the threshold, the more stable your Wi-Fi network, since it essentially asks more often when sending packages. However, if you don't have problems with your Wi-Fi you should make sure that the RTS Threshold is set to the maximum allowed.
- ... TX Power: This function allow to increase transmitting power which will device transmitting longer distance and passing more barrier (wall, floor, tree canopy...)
- ... DFS: Dynamic Frequency Selection (DFS) is a WiFi function that enables WLANs to use 5 GHz frequencies that are generally reserved for radars. If you are planning to use DFS channels, you first have to verify that both your WiFi access points and wireless clients support this functionality.
- ... 2G Distance: choosing suitable distance scenario for pair CPEs in 2.4GHz frequency.
- ... 5G Distance: choosing suitable distance scenario for pair CPEs in 5.8GHz frequency.

4) Network:

Setting up Network on device.

> AP Mode: When AP run in AP Mode

INTEL	LIGENT 1200N	I Wireless Bridg	e			Ŀ
Home	LAN Settings	VLAN Settings Clou	ud Server Settings			
Wizard WiFi	DHCP Server	IP Mode DHCP Server	Get IP From AC	etworks	Apply	
Network Manage						

P19. WiFi configuration in AP mode.

■ LAN Settings (AP Mode)

... IP Mode: choosing method to get IP from LAN (Such as: Static IP/Get IP from AC/Gateway).

... Click Apply button for finish.

■ VLAN Settings: configuring VLAN per SSID. For using this function, checking *On* in drag list at the bottom GUI.





INTEL	LIGENT 1200	M Wireless Bridge			Đ
	LAN Settings	VLAN Settings Cloud Se	erver Settings		
Home					
~	2G WiFi				
Wizard	5G WiFi		VLAN-ID range 3-4094		
WiFi		G	uépard Networi	ks	
Network					
Manage					
	Apply ON	×			
	ON				

P20. VLAN Settings in AP mode.

- ... 2G WiFi: input VLAN per SSID in 2.4GHz frequency (Such as: AP/VAP1/VAP2/VAP3).
- ... 5G WiFi: input VLAN per SSID in 5.8GHz frequency (Such as: AP/VAP1/VAP2/VAP3).
- ... Click *Apply* button for finish.
- > Gateway Mode: When AP run in Gateway Mode

INTELI	LIGENT 1200N	/I Wireless Bridg	e				[→
	LAN Settings	Static DHCP WAN S	ettings WA	N Advanced Settings	Cloud Server Settings	URL Mapping	
Home	LAN Settings						
		Lan IP	192.168.14.1				
Wizard		Subnet	255.255.255.0				
			•				
	DHCP Server			ard Natiun			
WiFi		DHCP Server	Conchi				
B		Start Address					
Network		Max Number					
HELWOIK		DHCP Lease Time	24(Hour)				
		Assigned IP Number		DHCP List			
Security						Apply	
Manage							

P21. WiFi configuration in Gateway mode.





- LAN Settings (GatewayMode)
 - ... LAN IP: inputting range LAN IP of device (static IP host).
 - ... Subnet: inputting LAN Subnet.
 - ... STP (Spanning Tree Protocol): switching button to green to activate this function.
 - ... DHCP Servers (*Dynamic Host Configuration Protocol*): switching button to green to activate this function.
 - ... Start Address: inputting start IP address (avoid IP address had setup in LAN IP above).
 - ... Max Number: inputting quantity of IP addresses except LAN IP of device(*limited quantity: 254 IP addresses*)
 - ... DHCP Lease Time: choosing time period to release all IP addresses.
 - ... Assigned IP Number: Numbers of IP addresses have been assigned. Clicking **DHCP List** button to view assigned IPs.

Static DHCP: setting up LAN clients/users with static IP by using this function.

■ WAN Settings: this function is configure WAN port which connect ISP's modem, router, fiber converter or business's switch, router.

INTE	LIGENT 1200M Wireless Brid	ge		₽
f	LAN Settings Static DHCP WAI	N Settings	WAN Advanced Settings Cloud Server Settings URL Mapping	
	WAN Settings			
	Connect Method	DHCP		
	ΜΤυ	1492	(1400-1500)	
	Set DNS Manually			
1	Primary DNS	8.8.8.8		
WiFi	Secondary DNS	4.4.4.4	ledard ivetworks	
	Band Type	1000M Fi	iber	
	Upstream	1000000	Kbps	
Network	Downstream	1000000	Кыра	
			Apply	
Security				
Xanaga				

P22. WAN Settings configuration in Gateway mode.

- ... Connect Method: choosing which connecting method use for device (Static, PPPoE, DHCP).
- ... MTU: the maximum transmission unit the size of the largest protocol data unit (PDU) that can be communicated in a single network layer transaction (*we can set: 1400-1500*).
- ... Set DNS Manually: setting default DNS for device. We can use DNS information of ISP or another public DNS, such as Google: 8.8.8/8.8.4.4
- ... Primary DNS: configuring first DNS information.
- ... Secondary DNS: configuring second DNS information (if Primary DNS is busy or timeout).



www.guepardnetworks.com



- ... Band Type: choosing real bandwidth which connect to WAN port.
- ... Upstream: inputting allowed upstream bandwidth.
- ... Downstream: inputting allowed downstream bandwidth.
- WAN Advanced Settings:

INTEL	LIGENT 1200	/ Wireless	Bridge				Ŀ
Home	LAN Settings		WAN Settings			URL Mapping	
Wizard Wifi	WAW Advanced settings		MAC Clor MAC Clor Enable Pir C Enable Pr Enable PP	eb server access on WAN port ie ng Access on WAN are pass through on VFN conne TP pass through on VFN conne	8080 (1-65535) Scan		
Network			Enable L2				
Security Manage							

P23. WAN Advanced Settings

- ... Enable web server access on WAN port (8080): Switching button to green to activate this function.
- ... MAC Clone: cloning client/user MAC. Switching button to green to activate this function.
- ... Enable Ping Access on WAN: Allowing clients/users outside LAN can ping this device over WAN port connection. Switching button to green to activate this function.
- ... Enable IPsec pass through on VPN connection: Switching button to green to activate this function.
- ... Enable PPTP pass through on VPN connection: Switching button to green to activate this function.
- ... Enable L2TP pass through on VPN connection: Switching button to green to activate this function.
- URL Mapping:



P24. Configuring URL Mapping





5) Security: running in Gateway/WISP Mode

> Gateway Mode: When AP run in Gateway Mode

■ URL Filter: this function issues rules permit or prohibit staffs/users access prohibited websites with schedule time or permanent.

INTEI	LLIGI	ENT 12	00M Wireless B	ridge						€→
ff										
Home										
	•									
Wizard				Url Filter					×	
R				Url Filter						
WiFi				Rule Name	Block LIAN					
				Time Group	Custom	~	Add			
Network				Time Range	08 ~ : 30 ~ ·	04 🗸 : 30 🗸				
				Work Date	Weekly					
Security					✓Mon ✓Tue	✓Wed ✓Thu	⊻ Fri	Sat Sun		
occurry (URL	www.facebook.co	om				
*				Mark	Facebook					
Manage								Save		

P25. Configuring URL Filter

- ... Click *Add* button in the bottom for creating new rule.
- ... Switching button *Status* to green to activate this rule.
- ... Rule Name: naming the rule.
- ... Time Group: choosing created previous time group or Any or Custom for applying this rule.
- ... Time Range: scheduling time in hours.
- ... Work Date: scheduling time in daily or week.
- ... URL: website address for applying this rule.
- ... Mark: marking hint.
- ... Click Save button for saving new rule.
- ... Apply all rules by choosing *Enable URL Filter Function* in bottom drag list, click **Apply** button for finish.
- ... Remove rule by choosing rule and click *Delete* button in the bottom.





■ IP Filter: This function issues rules permit or prohibit staffs/users in IP Range/IP Group access prohibited service ports & Protocol with schedule time or permanent.

ñ								
	SN SN						Mark	
	1	Custom IP File	ter				×	
			IP Filter					
			Status 🌔					
<u> </u>			Rule Name Block					
			Time Group Custom		Add			
		CUANAN	Time Range 08 🗸 : 0	0 - 17 - 00 -				
		GUEUdi	Work Date Weekly	KS ~				
			Mon V	Tue 🗹 Wed 🗹 Thu	🗹 Fri 🔤 Sat	Sun		
			IP Group general		Add			
			Port Range 80	- 8080	No emp	ty,range:1-655	35	
			Protocol TCP+UDP					
\$			Mark Accessing					
						Save		
		Prohibited rules	within the dev					

P26. Configuring IP Filter

- ... Click *Add* button in the bottom for creating new rule.
- ... Switching button *Status* to green to activate this rule.
- ... Rule Name: naming the rule.
- ... Time Group: choosing created previous time group or Any or Custom for applying this rule.
- ... Time Range: scheduling time in hours.
- ... Work Date: scheduling time in daily or week.
- ... IP Group: choosing created previous IP group (IP range) or Custom for applying this rule.
- ... Port Range: rule approve in port range (1-65535).
- ... Mark: marking hint.
- ... Click Save button for saving new rule.
- ... Apply all rules by choosing *Prohibited rules within the device through (or Allow the device to pass in the rule)* in bottom drag list, click **Apply** button for finish.
- ... Remove rule by choosing rule and click *Delete* button in the bottom.

■ MAC Filter: This function issues rules permit or prohibit staffs/users with MACs access through device in schedule time or permanent.







ń					
	SN SN				
	■ 1				
		MAC Filter		×	
		MAC Filte	r		
WiFi			Status 🚺		
		Rule	Name Block	line al	
		Time	Group Custom	Add KS	
Network		Time I	Range 08 - : 00 - 16 - : 0		
		Work	c Date Weekly		
Cacurity			✓Mon ✓Tue ✓Wed	Thu 🗹 Fri 🔤 Sat 🔤 Sun	
security		MAC Ad	idress 10:08:B1:43:93:03		
*			Mark DESKTOP-09CI712		
Manage				Save	
			Prohibited rules within the dev 🗸		
		Appy -			

P27. Configuring MAC Filter

- ... Click *Add* button in the bottom for creating new rule.
- ... Switching button *Status* to green to activate this rule.
- ... Rule Name: naming the rule.
- ... Time Group: choosing created previous time group or Any or Custom for applying this rule.
- ... Time Range: scheduling time in hours.
- ... Work Date: scheduling time in daily or week.
- ... Mark: marking hint.
- ... Click Save button for saving new rule.
- ... Apply all rules by choosing *Prohibited rules within the device through (or Allow the device to pass in the rule)* in bottom drag list, click **Apply** button for finish.
- ... Remove rule by choosing rule and click Delete button in the bottom
- **Security:** Mapping port function.
 - ... Click *Add* button in the bottom for creating new rule.
 - ... Switching button *Status* to green to activate this rule.
 - ... Rule Class: choosing the available rules, such as: User defined, HTTP, HTTPS, FTP, POP3, SMTP, DNS, Telnet, IPSEC, Remote Desktop.
 - ... Rule Name: Naming rule.
 - ... Protocol: Choosing the available protocols, such as: TCP, UDP or Both.
 - ... LAN IP: inputting client/user IP LAN or Scan button for selecting.





-							
	Security				×		
	Security						
	Status	0					
	Rule Class	HTTPS /	No Ma	hun 1			
	Rule Name	https GUA	Darn IVP	TWOrks			
	Protocol	ТСР	MIN 14A	VII V.			
	Lan IP	192.168.14.22					
	External Port	443	- 443	No empty,range:1-65535			
	Mark	DESKTOP-09CI71	2	No empty, ange. 1-05555			

P28. Configuring Security.

- ... External port: inputting port range to connect WAN (1-65535).
- ... Internal port: inputting port range to connect from LAN (1-65535).
- ... Mark: marking hint.
- ... Click Save button for saving new rule.
- ... Apply rule by selecting new rule and *Enable Port Mapping Function* in bottom drag list, click **Apply** button for finish.
- ... Remove rule by choosing rule and click *Delete* button in the bottom

■ DMZ: The purpose of a DMZ is to add an additional layer of security to an organization's local area network (LAN): an external network node can access only what is exposed in the DMZ, while the rest of the organization's network is firewalled.









- ... Switching button Enable DMZ to green to activate this function.
- ... DMZ Host: inputting Host's IP address which need move to this zone (DMZ). Or choosing Host's IP address by *Scan* button.
- ... Click **Apply** button for finish.

6) Manage: running in AP/Gateway/WISP Mode

This section manage basis configurations of device included:

- > AP Mode: When AP run in AP Mode
 - Configure

INTEL	LIGENT	1200M	Wireless Brid	lge	€→
Home	Configure	Reboot	Modify Password	Upgrade Time Log	
	Configure			Save the configuration file to your computer	
Wizard				Chocke File No file chosen OTKS	
WiFi			Reset Default Telnet	Restore the factory default settings, please press this button	
Network					
Manage					

P30. Configuring Management (AP mode).

- ... Backup: Save the configuration file on device to your computer.
- ... Restore: Restore the configuration file on your computer (by click *Choose file* button and browsing file) to device.
- Reset Default: reset device to factory default.

Reboot Timed Reboot Day

P31. Configuring Reboot.



Apply



- ... Reboot: reboot device immediately.
- ... Timed reboot: switching button to green to activate this function.
- ... Reboot time: choosing the date and time in week to restart device.
- ... Restart interval: interval to restart device in period 1 day 10 days.
- ... Click **Apply** button for finish.

Modify Password

- ... Old Password: inputting Old Password.
- ... New Password: inputting New Password which want to change.
- ... Confirm Password: confirming New Password.
- ... Click **Apply** button for finish.
- Upgrade: upgrading new firmware for device.
- Time: updating time for device.

Config	jure F	Reboot	Modify Password	Upgrade Time Log	
Time					
			System Time	2020-06-09 12:48:57	
			NTP Enable	gnenarn Networks	
			Time Zone Select	(GMT+01:00)Amsterdam, Berlin, Bern, Rome,Stockholm, Vi 🗸	
			Manual IP Settings		
			NTP Server	time.windows.com v	
				Apply	

P31. Configuring System Time.

- ... System Time: current time of device.
- ... NTP Enable: switching button to green to activate NTP function.
- ... Time Zone Select: choosing local time zone.
- ... Manual IP Settings: switching button to green to activate this function.
- ... NTP Server: choosing available public NTP servers.
- ... Click *Apply* button for finish.
- Log: managing device's log.
- > Gateway Mode: When AP run in Gateway/WISP Mode
 - Configure







P32. Configuring management (Gateway/WISP mode).

- ... Backup: Save the configuration file on device to your computer.
- ... Restore: Restore the configuration file on your computer (by click *Choose file* button and browsing file) to device.
- Reset Default: reset device to factory default.

Reboot

Configure	Reboot	Modify Password	Upgrade	Time	Log	Flow Control	IP Group	Time Group	DDNS Settings
Reboot									
		Reboot Timed Reboot Reboot Time Restart Interval	Reboot Everyday	pard	Netw	orks			
									Apply

P33. Configuring Reboot (Gateway/WISP mode).

- ... Reboot: reboot device immediately.
- ... Timed reboot: switching button to green to activate this function.
- ... Reboot time: choosing the date and time in week to restart device.
- ... Restart interval: interval to restart device in period 1 day 10 days.
- ... Click **Apply** button for finish.

Modify Password

- ... Old Password: inputting Old Password.
- ... New Password: inputting New Password which want to change.
- ... Confirm Password: confirming New Password.
- ... Click Apply button for finish.





- **Upgrade:** upgrading new firmware for device.
- **Time:** updating time for device.

Co	onfigure	Reboot	Modify Password	Upgrade	Time	Log	Flow Control	IP Group	Time Group	DDNS Settings
Time										
			System Time	2020-06-12	2 12:12:26					
			NTP Enable	Sudr	nard N	latu	arka			
			Time Zone Select	(GMT+01	:00)Amster	dam, Berl	in, Bern, Rome,S	tockholm, Vi 🗸]	
			Manual IP Settings	-	-	-				
			NTP Server	time.wind	lows.com					
										Apply

P34. Configuring System Time (Gateway/WISP mode).

- ... System Time: current time of device.
- ... NTP Enable: switching button to green to activate NTP function.
- ... Time Zone Select: choosing local time zone.
- ... Manual IP Settings: switching button to green to activate this function and inputting NTP's IP address.
- ... NTP Server: choosing available public NTP servers.
- ... Click Apply button for finish.
- Log: managing device's log.
- Flow Control: this function (QoS) control all bandwidth flows to users which can assure system quality of service.
 - ... Click Add button in the bottom for creating new QoS rule.
 - ... Switching button *Status* to green to activate this rule.
 - ... IP Group: choosing created previous IP group (*IP range*) or Custom for applying this rule.
 - ... IP Address: inputting IP range or choosing IP address from running list by clicking *Scan* button.
 - ... Time Group: scheduling time in daily or week.
 - ... Limited Mode: choosing QoS mode, such as: Exclusive limited bandwidth (the allowed bandwidth per client/user in IP range) or Shared Limited Bandwidth (shared total bandwidth for all clients/users in IP range).
 - ... Up: fixed upstream in rate Kbps.
 - ... Down: fixed downstream in rate Kbps.
 - ... Mark: marking hint.
 - ... Click Save button for saving new QoS rule.
 - ... Apply all rules by choosing Enable QoS (or Disable) in bottom drag list, click Apply button for finish.
 - ... Remove rule by choosing rule and click *Delete* button in the bottom.







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		Speed Limit				×
		Speed Limit				
		Status				
		IP Group	Custom	✓ Add		
	Cuons	IP Address	192.168,14.2	- 192.168.14.254	Scan	
	GACNO	Time Group	PM V5	✓ Add		
		Limited Mode	Shared Limited Band	width 🗸 🗸		
		Up	8000	Kbps		
		Down	8000	Kbps		
		Mark	8Mbps			
					Sav	

P35. Configuring QoS-Flow Control (Gateway/WISP mode).

■ IP Group: creating Groups with IP range. Every Group can use rule which controlled by administrator.

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Wizard	-							
(îr		IP Group					×	
WiFi		Group Nan	e genera		hue			
Network		r Addre Ma	is 192.16 rk Group	58.14.2 01	- 192.168.1	1854		
Security							ave	
Manage								







- ... Click **Add** button in the bottom for creating new Group.
- ... Group Name: Naming Group.
- ... IP Address: inputting IP range or choosing IP address from running list by clicking *Scan* button.
- ... Mark: marking hint.
- ... Click Save button for saving new Group.
- ... Remove Group by choosing Group and click *Delete* button in the bottom.
- **Time Group:** creating Groups with time schedule. Every Group can use rule which controlled by administrator.
 - ... Click Add button in the bottom for creating new time group.
 - ... Time Group: Naming new time group.
 - ... Time Range: scheduling time in hours.
 - ... Work Date: scheduling time in daily or week.
 - ... Mark: marking hint.
 - ... Click *Save* button for creating new time group.
 - ... Remove time group by choosing time group and click **Delete** button in the bottom.

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	Time Group					×		
	Time Group							
	Time Group	Working /		1.				
	Time Range		16 - : 00 -	TWork	(S			
	Work Date	Weekly	MININ	111AL				
		Mon ∎Tue	⊠ Wed ⊠ Thu	₩Fri	Sat Su			
	Mark	Working						
					Save			

P36. Creating Time Group (Gateway/WISP mode).

7) Exit: Exit GUI (Graphic User Interface).

Exiting device's GUI by clicking button on the right top as below:









4th Trouble Shooting:

No.	Symptoms of AP device	Solution
1	AP's Indicator off	Please make sure the PoE module connection is connected right PoE Port. And PoE adapter connect right power outlet.
2	I forget user name and password in GUI login	Press and hold the "Reset" button more than 15 seconds to restore factory default
3	I cannot login the AP through WEB management	 Please make sure PC and AP's IP Address are in same network segment, then check if can Ping AP's IP address: PC startinput "and" in Run, then ping 192.168.188.253 Login again after Restore this ceiling AP to factory default. Make sure there isn't any equipment to take IP address of 192.168.188.253 in the same network Check LAN cable to avoid any problem, recommend do not use unshielded twisted pair Ethernet cable.
4	I forget the AP's SSID and passwords	 Login to AP's GUI page by internet cable, then reset password in WiFi setting. Restore to factory default
5	I can't access to AP's IP address	 Check AP's DHCP and make it enabled in Gateway mode. Check the internet connection between AP and the root router/switch in AP and Repeater mode. Or AP run in AP mode. PC should change IP matching AP's IP subnet.
6	l can't access into Internet even finished the settings of wireless AP	 If dynamic IP user, login wireless AP's WEB page, check Internet settingsWAN SettingDynamic IP, fill in right information. If ADSL user, login wireless AP's WEB page, check Internet settingsWAN settingPPPOE, then input the right user name and password Please set PC's IP address as obtain IP address automatically
7	How to change IP address in local network	Click Advanced settings-Network-LAN settings-IP address setting- Apply
8	How to Reset Wireless AP	Press and hold the "Reset" button more than 15 seconds after power on. The Wireless AP will be restored back factory default after the Wireless AP restart.

