

Datasheet | UBG3102-300, UBG3102-900, UBG3102-900H, UBG3302-900H
2.4G 300Mbps/5.8G 900Mbps Outdoor CPE
5.8G 900Mbps Long Range Outdoor CPE

Overview

The Outdoor CPE is designed to solutions for video surveillance transmission and wireless broadband access. It features with high Gain directional antenna to provide an efficient way to pick up and maintain a stable long range connection. Get rid of the transmission distance limitation and disadvantage of wired cables.

Features and Highlights

High Gain antenna & Long distance transmission

- UBG3102-300: 8dBi Gain 2*2MIMO antenna, up to 1.5km transmission range
- UBG3102-900: 12dBi Gain 2*2MIMO antenna, up to 2km transmission range
- UBG3102-900H: 14dBi Gain 2*2MIMO antenna, up to 4km transmission range
- UBG3302-900H: 15dBi Gain 2*2MIMO antenna, up to 6km transmission range

Professional Outdoor Design

- Working temperature: -30~55°C
- IP65
- 6kV ESD protection

Easy-to-use

- One-Key to pair
- WEB management
- AC management



Specifications

Items	UBG3102-300	UBG3102-900
Hardware Specifications		
Ethernet Port	1*10/100Base-T PoE RJ-45 WAN (Auto-MDI/MDI-X)	1*10/100Base-T PoE RJ-45 WAN (Auto-MDI/MDI-X)
	1*10/100Base-T RJ-45 LAN(Auto-MDI/MDI-X)	1*10/100Base-T RJ-45 LAN(Auto-MDI/MDI-X)
Power Method	PoE: 24V, 0.5A	PoE: 24V, 0.5A
Frequency Range	2.412 GHz ~ 2.484GHz	5.150GHz ~ 5.850GHz
Compliant Standards	IEEE 802.11b/g/n	IEEE 802.11a/n/ac
Antenna Gain	8dBi	12dBi
Maximum Wireless Rate	300Mbps	867Mbps
Flash	8MB	8MB
RAM	64MB	64MB
LED Indicator	1*System working indicator	1*System working indicator
	1*Wi-Fi state indicator	1*Wi-Fi state indicator
	1*WAN port state indicator	1*WAN port state indicator
	1*LAN port state indicator	1*LAN port state indicator
Init Button	Short press to pair Long press >10s to initialize the system	Long press >10s to initialize the system
Cable	Cat5 or better	
Dimensions (L*W*H)	168mm*88mm*57.6mm	168mm*88mm*47.6mm
Power Consumption	≤5W	≤8W
Reliability		
ESD	6kV	
Surge	2kV	
Protection	IP65	
Operating	-30°C~55°C, 5%~95% (Non-condensation)	
Storage	-40°C~70°C, 5%~95% (Non-condensation)	

Specifications

Items	UBG3102-900H	UBG3302-900H
Hardware Specifications		
Ethernet Port	1*10/100Base-T PoE RJ-45 WAN (Auto-MDI/MDI-X)	1*10/100/1000Base-T PoE RJ-45 WAN (Auto-MDI/MDI-X)
	1*10/100Base-T RJ-45 LAN(Auto-MDI/MDI-X)	1*10/100/1000Base-T RJ-45 LAN(Auto-MDI/MDI-X)
Power Method	PoE: 24V, 0.5A DC: 12V, 1A	PoE: 48V, 0.5A DC: 12V, 1.5A
Frequency Range	5.150GHz ~ 5.850GHz	5.150GHz ~ 5.850GHz
Compliant Standards	IEEE 802.11a/n/ac	IEEE 802.11a/n/ac
Antenna Gain	14dBi	15dBi
Maximum Wireless Rate	867Mbps	867Mbps
Flash	8MB	8MB
RAM	64MB	128MB
LED Indicator	1*Power supply indicator	1*System working indicator
	1*Wi-Fi state indicator	1*Wi-Fi state indicator
	1*WAN port state indicator	1*WAN port state indicator
	1*LAN port state indicator	1*LAN port state indicator
	4*Signal strength indicator	4*Signal strength indicator
Init Button	Short press to pair	Long press >10s to initialize the system
	Long press >10s to initialize the system	
Cable	Cat5 or better	
Dimensions (L*W*H)	237mm*79.1mm*56.1mm	260mm*85mm*45mm
Power Consumption	≤8W	≤15W
Reliability		
ESD	6kV	
Surge	2kV	
Protection	IP65	
Operating	-30°C~55°C, 5%~95% (Non-condensation)	
Storage	-40°C~70°C, 5%~95% (Non-condensation)	

Specifications

Items	UBG3102-300				
2.4G Wireless Power	802.11b	11M	18±2dBm	1M	21±2dBm
	802.11g	54M	17±2dBm	6M	20±2dBm
	802.11n HT20	MCS7	16±2dBm	MCS0	19±2dBm
	802.11n HT40	MCS7	15±2dBm	MCS0	18±2dBm
2.4G Receiver Sensitivity	802.11b	11M	-85dBm	1M	-94dBm
	802.11g	54M	-72dBm	6M	-88dBm
	802.11n HT20	MCS7	-68dBm	MCS0	-86dBm
	802.11n HT40	MCS7	-66dBm	MCS0	-85dBm
2.4G EVM	802.11b: ≤-10 dB; 802.11g: ≤-25 dB; 802.11n: ≤-28dB				
Items	UBG3102-900				
5G Wireless Power	802.11a	54M	17±2dBm	6M	19±2dBm
	802.11n HT20	MCS7	16±2dBm	MCS0	18±2dBm
	802.11n HT40	MCS7	15±2dBm	MCS0	17±2dBm
	802.11AC	MCS9	14±2dBm	MCS0	16±2dBm
5G Receiver Sensitivity	802.11a	54M	-68dBm	6M	-86dBm
	802.11n HT20	MCS7	-68dBm	MCS0	-86dBm
	802.11n HT40	MCS7	-65dBm	MCS0	-83dBm
	802.11AC	MCS9	-55dBm	MCS0	-73dBm
5G EVM	802.11a_54M: ≤-25 dB; 802.11n_MCS7: ≤-28 dB; 802.11AC_MCS9:≤-32dB				
Items	UBG3102-900H				
5G Wireless Power	802.11a	54M	22±2dBm	6M	25±2dBm
	802.11n HT20	MCS7	21±2dBm	MCS0	24±2dBm
	802.11n HT40	MCS7	21±2dBm	MCS0	24±2dBm
	802.11AC	MCS9	20±2dBm	MCS0	23±2dBm
5G Receiver Sensitivity	802.11a	54M	-75dBm	6M	-92dBm
	802.11n HT20	MCS7	-72dBm	MCS0	-90dBm
	802.11n HT40	MCS7	-70dBm	MCS0	-88dBm
	802.11AC	MCS9	-58dBm	MCS0	-76dBm
5G EVM	802.11a_54M: ≤-25 dB; 802.11n_MCS7: ≤-28 dB; 802.11AC_MCS9:≤-32dB				
Items	UBG3302-900H				
5G Wireless Power	802.11a	54M	21±2dBm	6M	24±2dBm
	802.11n HT20	MCS7	20±2dBm	MCS0	23±2dBm
	802.11n HT40	MCS7	19±2dBm	MCS0	22±2dBm
	802.11AC	MCS9	18±2dBm	MCS0	21±2dBm
5G Receiver Sensitivity	802.11a	54M	-72dBm	6M	-92dBm
	802.11n HT20	MCS7	-70dBm	MCS0	-89dBm
	802.11n HT40	MCS7	-68dBm	MCS0	-87dBm
	802.11AC	MCS9	-58dBm	MCS0	-85dBm
5G EVM	802.11a_54M: ≤-25 dB; 802.11n_MCS7: ≤-28 dB; 802.11AC_MCS9:≤-32dB				

Software Architecture

Items	
Operating Mode	AP mode, Repeater mode
Wi-Fi	SSID number: 4
	Support SSID hidden
	Support Wireless Security: OPEN, WPA, WPA2, WPA-PSK, WPA2-PSK
	Support MAC address filter
	Support Wi-Fi Schedule
	Support wireless client isolation
	Support transmission power setting
	Support wireless access number control
Network	Support VLAN
	Support DHCP server
System Management	Support system settings backup & restore
	Support system reboot & schedule reboot
	Support web upgrading
	Support history record, journal management

Packing List

Welcome to order our products. After purchasing, you will receive:

UBG3102-300, UBG3102-900 Items	Quantity
Outdoor CPE	1 pair
Power Adapter	2 pc
Power Cable	2 pc
Mounting Accessory	1 set
Ethernet Cable	2 pc
Quick Installation Guide	1 pc

UBG3102-900H, UBG3302-900H Items	Quantity
Outdoor CPE	1pc
Power Adapter	1 pc
Power Cable	1 pc
Mounting Accessory	1 set
Ethernet Cable	1 pc
Quick Installation Guide	1 pc

More Information

For more information, please visit:

www.utepo.net

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