



# GT-WAP-OP

802.11ax Outdoor Dual-Band Enterprise AP

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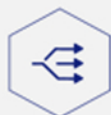


## • Product Overview

GT-WAP-OP is high performance outdoor wireless access point which can support 2.4 GHz and 5 GHz band, adopting technologies such as Multi-User Multiple-Input Multiple-Output (MU-MIMO) and orthogonal frequency division multiplexing (OFDM), providing a data transmission rate of at most 575 Mbps in 2.4GHz band and 1200Mbps in 5GHz band. It supports up to 254 concurrent users. With integrated antenna inside, GT-WAP-OP is widely used at outdoor WIFI coverage networks, such as campus, streets, rural area, resorts and scenic spots.



802.11a/b/g/n/ax



concurrent user 254



1775Mbps, 2\*2 MIMO



external antenna

**IP68**

water & dust proof



Standard 802.3at PoE input



cloud management



long distance uplink

# • Highlights

- ▶ High-level outdoor 802.1ax wireless access
- ▶ Fiber uplink for long-distance connection
- ▶ Operating in a wide temperature range
- ▶ Highest IP68 Anti-dust & water standard
- ▶ Good PoE compatibility
- ▶ High-performance RF
- ▶ Cloud management
- ▶ Dual-mode fit & fat

## Product Specifications

### • Hardware Specifications

#### ORDERING INFORMATION

Item	GT-WAP-OP
Working Frequency	2.4G : 802.11b/g/n/ax 5G : 802.11a/n/ac/ax
Maximum Data Rate	2.4G : 575Mbps 5G : 1200Mbps
Physical Port	1 * 10/100/1000Base-T PoE port for uplink 1 * 1000M SFP fiber port
PoE Maximum	802.3at
Power Consumption Antenna	< 23.4W Internal antenna, 2.4G 10dBi, 5G 10dBi
Working frequency band	802.11a/n/ac: 5.150 GHz to 5.850 GHz 802.11b/g/n/ax: 2.4 GHz to 2.483 GHz 802.11a/n/ac/ax: 5.150: 5.350GHz 5.47: 5.725GHz 5.725: 5.850GHz
Modulation technology	11b : DSS: CCK@5.5/11Mbps, DQPSK@2Mbps, DBPSK@1Mbps 11a/g: OFDM:64QAM@48/54Mbps,16QAM@24Mbps, QPSK@12/18Mbps, BPSK@6/9Mbps 11n: MIMO-OFDM: BPSK, QPSK,16QAM,64QAM 11ac: MIMO-OFDM: BPSK, QPSK,16QAM,64QAM,256QAM 11ax: MIMO-OFDM: BPSK, QPSK,16QAM,64QAM,256QAM,1024QAM
Transmit power	2.4G: 27dBm (Per Chain) (5G : 27dBm (Per Chain) (Note: final output power comply with deployment regulation might be different)
Power Adjustment Granularity	1 dBm
Working/Storage Temperature	-40°C to +65°C -45°C to +80°C
Working/Storage RH	5% to 95% (non-condensing)
Protection level	IP68

# • Hardware Specifications

## Software Specifications

Item	Feature	GT-WAP-OP
Working Frequency	Product positioning	Outdoor dual frequency
	Working frequency band	2.4 GHz and 5 GHz
	Bandwidth performance	1775Mbps
	Virtual AP (BSSID)	32
	Concurrent user	254
	Number of spatial streams	2.4G: 2 5G:2
	Dynamic channel adjustment (DCA)	Yes
	Transmit power control (TPC)	Yes
	Blind area detection and repair	Yes
	SSID hiding	Yes
	RTS/CTS	Yes
	RF environment scanning	Yes
	Hybrid access	Yes
	Restriction on the number of access users	Yes
	Link integrity check	Yes
	Intelligent control of terminals based on airtime fairness	Yes
High-density application optimization	Yes	
802.11ax	Space streams	2.4GHz:2, 5GHz:2
	Frequency band	2.4GHz + 5GHz
	80 MHz bundling	Yes
	1200Mbps (PHY)	Yes
	Frame aggregation (A-MPDU)	Yes
	Frame aggregation (A-MSDU)	Yes
	Maximum likelihood demodulation (MLD)	Yes
	Transmit beamforming (TxBF)	Yes
	Maximum ratio combining (MRC)	Yes
	Space-time block coding (STBC)	Yes
	Low-density parity-check code (LDPC)	Yes
Security	Encryption	64/128 WEP, dynamic WEP, TKIP, and CCMP encryption
	802.11i	Yes
	WAPI	Yes
	MAC address authentication	Yes
	LDAP authentication	Yes
	PEAP authentication	Yes
	WIDS/WIPS	Yes
	Protection against DoS attacks	Anti-DoS for wireless management packets

Item	Feature	GT-WAP-OP
	Forwarding security	Frame filtering, white list, static blacklist, and dynamic blacklist
	User isolation	AP L2 forwarding suppression Isolation between client
	Periodic SSID enabling and disabling	1775Mbps
	Access control of free resources	32
	Wireless SAVI	254
	ACL	2.4G: 2 5G:2
	Secure access control of APs	Secure access control of APs, such as MAC authentication, password authentication, or digital certificate authentication between an AP and an AC
Forwarding	IP address setting	Static IP address configuration or dynamic DHCP address allocation
	IPv6 forwarding	Yes
	IPv6 portal	Yes
	Local forwarding	Yes
	Multicast	IGMP snooping
	Roaming	Yes
	AP switching reference	Signal strength, bit error rate, RSSI, S/N, whether neighboring APs are normally operating, etc.
	WDS	Yes

Item	Feature	GT-WAP-OP
QoS	WMM	Yes
	Priority mapping	Ethernet port 802.1P identification and marking Mapping from wireless priorities to wired priorities
	QoS policy mapping	Mapping of different SSIDs/VLANs to different QoS policies Mapping of data streams that match with different packet fields to different QoS policies
	L2-L4 packet filtering and flow classification	Yes: MAC, IPv4, and IPv6 packets
	Load balancing	Load balancing based on the number of users Load balancing based on user traffic Load balancing based on frequency bands
	Bandwidth limit	Bandwidth limit based on APs Bandwidth limit based on SSIDs Bandwidth limit based on terminals Bandwidth limit based on specific data streams
	Call admission control (CAC)	CAC based on the number of users
	Power saving mode	Yes
	Automatic emergency mechanism of APs	Yes
	Intelligent identification of terminals	Yes
	Multicast enhancement	Multicast to unicast
Management	Network management	Centralized management through an AC; both fit and fat modes
	Maintenance mode	Both local and remote maintenance

Item	Feature	GT-WAP-OP
	Log function	GT-WAP-OP
	Alarm	Local logs, Syslog, and log file export
	Fault detection	Yes
	Statistics	Yes
	Switching between the fat and fit modes	An AP working in fit mode can switch to the fat mode through a wireless AC; An AP working in fat mode can switch to the fit mode through a local control port or Telnet.
	Remote probe analysis	Yes
	Watchdog	Yes

## ● Order Information



Stadium

- 802.11ax
- Uplink fiber port
- 802.3at PoE
- IP68
- Concurrent user 254
- Embedded directional antenna

## ● Order Information

Product	Description
GT-WAP-OP	802.11a/b/g/n/ax outdoor high-performance AP (2.4GHz & 5GHz dual band, 1.775Gbps, internal 10dBi directional antenna, 1*10/100/1000Base-T GE ports and 1*SFP fiber port, 802.3 at PoE)

\*As per continues product development specification may changes without prior notice.