

WIFI 6 AX3000 Indoor CPE

Model: HG3000

Purpose and Scope

The purpose of this document is to define product specification of WIFI6 compliant Indoor CPE.



Product Features

- Support QoS service flow initiated by CPE
- Support Dynamic Host Configuration Protocol
- Support Built-in web server for web-based configuration
- Support Password protected access and configuration
- Support LAN*4,WAN *1
- Support 2.4G Wi-Fi
- Support 5G Wi-Fi

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General Specification:

Spec	Description
Chipset	Wi-Fi: MT7981(dua-core ARM Cortex-A53(1.3GHz)) +MT7976C+MT7531A
Memory	Router: ROM 128Mbits + RAM 2Gbits, (ROM 256Mbits + RAM 4Gbits optional)
Indictors	Power Wi-Fi Switch Status Signal Bar Indicator
Buttons	Reset Key + WPS Button
Interfaces	GE LAN Port * 4, GE WAN Port * 1 DC Socket
LAN/WAN	GE LAN Port * 4, GE WAN Port * 1 (Currently DHCP/STATIC mode).
Power Supply	AC100V~240V,50Hz~60Hz DC 12V DC±10% 1A
Power Consumption	< 12W
Dimensions	255mm*130mm*35.5mm
Weight	480g

Unit Interface :

Connector	Description
LAN – RJ 45	The LAN port allows you to connect PC to surf internet via CPE
WPS Button	Click to start WPS connection
WPS Indicator	Indicate WPS connection status
Network Indicator	Indicate network link status
Signal Bar Indicator	Indicate network signal strength

Radio Specification:

Feature	Capability
Wi-Fi Antenna	2.4G *2; 5.8G *4
Wi-Fi Antenna Gain	5dBi
Wi-Fi Frequency	2.4GHz/5GHz
Wireless	MU-MIMO 802.11a/b/g/n/ac/ax WiFi6 2.4GHz 2T2R 574Mbps,B mode@23dBm(Max) 5.8GHz 3T3R 2.4Gbps,A mode@23dBm(Max)
Wi-Fi Output Power	23 dBm/2.4G; 23dBm/5G;
Wi-Fi Channel BW	20MHz,40MHz,80MHz (AC) ,160MHz(AX) 11ax: OFDMA/MU-MIMO: BPSK, QPSK, 16QAM, 64QAM, 256QAM , 1024QAM. MCS0~MCS11

Software Specifications:

Spec	Description
Language	English
	Simple Chinese,
	Could be customized
Https/Http	Both
Network Status	Signal strength
	Wi-Fi Status
	WAN/LAN Status
System Status	Mobile parameters, APN/DHCP/Wi-Fi information,, Version/Device information
Internet Settings	Network mode setup, Data switch,
DHCP Setup	Enable/disable DHCP server Configure DHCP IP Pool Configure DHCP Lease Time
Static Route	Route Setup on WAN/LAN interface
DDNS	Support
Backup/restore	Encryption backup current settings and restore the backup settings (Export/Import Configuration)
Work Mode	Access Point, Range Extender, Router Mode

Environmental Specification:

Feature	Capability
Operating Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)
Storage Temperature	-40 °C ~ 70 °C (-40 °F ~ 158 °F)
Operating humidity	10% ~ 90% non-condensing
Storage humidity	5% ~ 90% non-condensing

Device Management :

Spec	Description
Software Update	WebUI update TR069 update
TR069	HTTP/HTTPS Supports upload / download the ACS specified file Support download CPE configuration file Support configure & queries parameters Support remote upgrade Support cycle monitor
Diagnostics	Ping/Trace/Tcpdump
	Export current diagnosis results and operation logs

Firewall Features:

Functions
DMZ
Port Mapping
IP-Port Filter
MAC Filter
URL Filter
Speed Limit
UPnP

WIFI Features:

Functions
Support Wi-Fi Switch turn on/off,
Support Wi-Fi SSID/KEY setup
Support Encryption: OPEN, WPA2-PSK, WPA/WPA2-PSK,
Support SSID broadcasting
Support Wi-Fi protocol IEEE 802.11 b/g/n, IEEE 802.11 ac, IEEE 802.11 ax WIFI6
Support Wi-Fi bandwidth setup
Support Wi-Fi channel self-adapt and select
Support Wi-Fi maximum users 2.4G Wi-Fi: 64 5G Wi-Fi: 64
Support WPS: Support WPS PBC