



AX3000 Gigabit Dual Band Wi-Fi 6 Router

Model: TY-AX30C
Product Specification
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1 Product introduction



TY-AX30C supports IEEE 802.11ax protocol (Wi-Fi6) and is a full gigabit dual band wireless router. The appearance design of the product adopts the traditional horizontal four antenna design and matches with the design elements of the racing car. The appearance is beautiful and generous

- 1) Hardware configuration: Hisilicon Wi-Fi6 chip platform Hi5671YV200 dual-core dominant frequency 1.2GHz
- 2) Product form: 1 WAN interface, 3 LAN interfaces, all supporting 1000/100/10 adaptation,
- 3) Wireless 2.4GHz maximum connection rate is 574Mbps, 5GHz maximum connection rate is 2402Mbps, and the total connection rate is 2976Mbps.
- 4) TY-AX30C with 5G adopts internal FEM (PA+LNA), and 2.4G adopts internal FEM (PA+LNA), the wireless signal is strong.

2 Product specifications

2.1 Product configuration table

Hardware	Model	TY-AX30C
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indicators	Product Name	Gigabit Dual Band Wi-Fi 6 Router
	CPU	Hi5671YV200 (dual-core, Frequency 1.2GHz)
	2.4G Chip	Hi5622V100 Inside
	5G Chip	Hi5622V100 Inside
	Wireless Protocol	Support 802.11 b/g/n/a/ac/ax
	RAM	DDR3 256MB
	ROM	NAND 128MB
	PA\LNA	2.4G IPA, 5G EPA
	Modulation	DBPSK/DQPSK/CCK/BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM
	OFDMA	Support
	MU-MIMO	Support
	TWT	Support
	Bandwidth	2.4G HT40 5G HT160
	LED	Red\Green
	PCB Layer	Layer2 1.2mm
	Ethernet	WAN 1GE LAN 3GE
	Antenna	2.4G Gain 3dBi 2 External 5G Gain 3dBi 2 External
	Operating bandwidth	HT20\HT40\HT80\HT160
	Power specifications	12V 1.0A
	Power consumption	<12W
	Weight	
	Size	206mm(L) X 124.5mm(W) X 65.7mm(H)

2.2 Buttons and interfaces



- WAN interfaces: 1, supporting 1000/100/10Mbps adaption
- LAN interfaces: 1, supporting 1000/100/10Mbps adaption
- Button specifications: 1 reset/WPS button
- Power interface specification: 12V 1.0A, diameter 6.3mm, inner needle round head 2.1mm

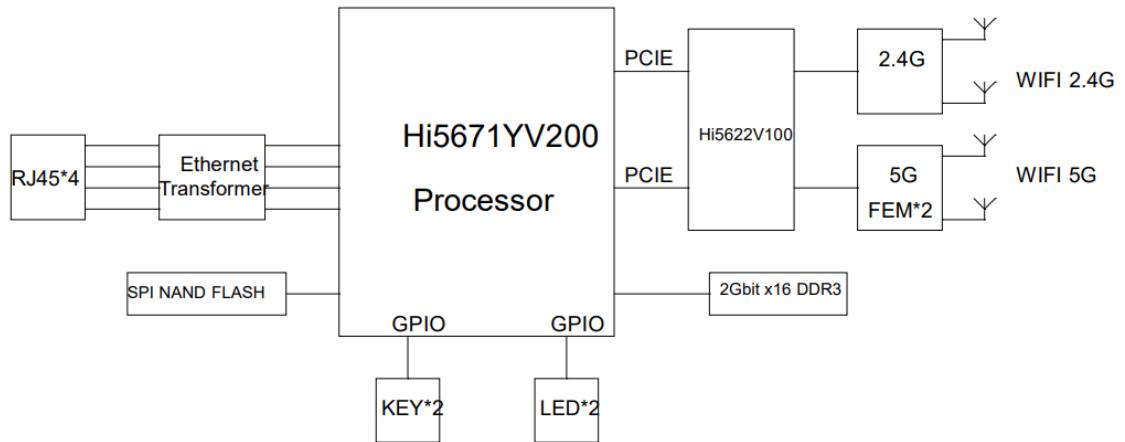
2.3 LED

Red	OFF	Indicates that the power is not on (the green light is off at the same time) or the network is normal
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	Blink	Indicates that MESH networking failed
	ON	Indicates that the Internet is unavailable
Green	OFF	Indicates that the power is not on (the red light is off at the same time) or the Internet is unavailable
	Blink	Indicates that WPS code pairing or MESH networking is in progress
	ON	Indicates that the Internet is used normally

2.4 Block diagram

Block Diagram



3 Wi-Fi Specifications

2.4GHz (802.11ax, 2*2)	
Standards	IEEE802.11ax/IEEE802.11n/IEEE802.11g/IEEE 802.11b
TX. Power	MCS7:19dBm
RSSI	MCS7:-74dBm
Antenna	Two (2) external 2.4G-bandomni antennas 3dBi
Connection rate	574Mbps

5GHz (802.11ax,2*2)	
Standards	5.0GHz: 802.11ax/802.11ac/IEEE 802.11n/IEEE 802.11a
TX. Power	MCS9: 21dBm
	MCS11: 19dBm
RSSI	MCS9: -61dBm
	MCS11: -57dBm
Antenna	Two (2) external 5G bandomni antennas 3dBi
Connection rate	2402Mbps

4 Feature

Function	describe	Degree of support
Network Protocol	802.1q/1p VLAN over RFC2684 bridge encapsulation	Support
	PPPoE	Support
	PPPoE passthrough	Support
	PPPoE filtering of non- PPPoE packets between WAN and LAN	Support
	Auto clean up of remote stalled PPP sessions at BRAS	Support
	IpoE	Support
	Transparent bridging between all LAN and WAN interfaces	Support
	WAN to WAN blocking in bridgemode	Support
	Ethernet as WAN	Support
network	Full Cone NAT	Support
	DMZ Host	Support
ALG	FTP	Support
	TFTP	Support
	SIP	Support
	RTSP	Support
	H.323	Support
	Port Triggering	Support
	PPTP	Support
VPN	IPSec/VPN and IPSec/L2TP	Support
	IPSec	Support
	L2TP	Support
Firewall/Filtering	PPTP	Support
	Status	Support
	DoS	Support

	packet filtering	Support
	LAN Side firewall	Support
Parental control	Time of day usage restriction	Support
	URI/URL Filtering	Support
QoS	IP/Bridge/802.1p	Support
	Rate Control on upstream traffic	Support
	Support SP, WRR,WFQ priority VLAN stacking (Q-in-Q)	Support
Router	RIP v1/v2	Support
	Policy Routing	Support
IGMP	Proxy and snooping	Support
	IGMP v2 and v3	Support
	Support for IPv6	Support
IPv6	IPv6 Ready Logo Certified	Support
	IPv6 Firewall	Support
	IPv6 capable apps	Support
FS	SquashFS	Support
	JFFS2	Support
	tmpfs	Support
	VFAT	Support
	NTFS	Support
DHCP server	Support for multiple subnets	Support
	Static IP lease	Support
	DHCP relay	Support
DHCP Client	DHCP client	Support
Variable IP	Second IP address on LAN interface	Support
DNS 代理	Built in DNS server	Support
	Caching previous requests	Support
GUI	WEBUI	Support
TR-069	Digest Authentication, SSL and Basic Authentication, SSL and Digest Authentication	Support
	Auto- launch and exit- on- idle	Support
	TR- 098	Support
	TR- 098 profile support	Support
	TR- 111 (part 1)	Support
	TR- 140	Support
	TR- 104	Support
UPnP	Internet Gateway Device (IGDv1.0)	Support
	Finite(24 hour) duration of virtual server entries created using UPnP	Support

Security	Service access based on incoming interface and/or source IP address	Support
	Automatic logout from CLI after inactivity	Support
Log	Log	Support
Diagnostic	Ping	Support
	Tracert	Support
Wireless	Support MCS 0-15 and MCS 32 modulation and coding rates	Support
	Support 20M and 40M channels	Support
	Support for STBC in both TX and RX	Support
	WEP encryption	Support
	802.11ax	Support
	WPA/WPA2	Support
	WPA-PSK/WPA2-PSK	Support
	WPA3	Support
	Mac Filter base on each SSID	Support
	Multiple SSID	Support
	Support SSID hidden	Support
	SSID User Isolation	Support
	WPS	Support
	Enable or disable WIFI through GUI	Support
	Broadcom SmartMesh	Support
	One Click MESH	Support
	bandsteering	Support
	802.11k\802.11v\802.11r	Support
Others	USB Printer Server	Support
	Dynamic DNS	Support
	sntp time synchronization	Support
	ssh	Support
	telnet	Support
	DLNA Support	Support
	Power Management	Support

5 Environment

- Operating temperature: 0°C ~ 40°C
- Operating humidity: 10% ~ 90% RH
- Storage temperature: -10°C ~ 70°C
- Storage humidity: 5% ~ 95% RH