

YA795 -- 1200M enterprise wireless outdoor AP



YA795 is a new generation of high-performance, cost-effective outdoor AP products that work in 2.4G/5G bands and support 802.11a/b/g/n/ac MIMO technology. Adopt MT7628AN solution, 8M flash /64M memory, 100 megabit network interface, output power up to 500mw, 2.4G 802.11n MIMO technology wireless processing speed up to 300Mbps, 5G 802.11ac MIMO technology wireless processing speed of up to 867Mbps, can meet 64 people at the same time wireless high-speed Internet requirements. The shell adopts IP64 windproof, rainproof, dustproof and sunscreen outdoor protection design, which can easily adapt to the extreme environment of outdoor high temperature and cold. External two 5dBi dual-frequency omnidirectional outdoor glue stick antennas, support pole holding/wall mounting, support 24V PoE power supply +12V1A power supply mode flexible, plug and play, features high gain, high receiving sensitivity, high bandwidth, high access number, wide wireless coverage, stable performance. It is suitable for small and medium-sized outdoor wireless coverage scenes such as scenic spots, mountains and streets.

Hardware product features

High cost performance hardware configuration

Built-in MT7628AN main control chip, industrial circuit design, 8MB Flash/64MB SDRAM, support IEEE802.11b/g/n protocol, can provide 300Mbps wireless access speed, excellent anti-high and low temperature design, ensure the user network data in the extreme environment can be real-time, long-term, stable, transmission. Improve user experience.

100 Mbit/s adaptive cable network port supports PoE and DC power supply

The LAN1/WAN PoE+LAN2 10/100 MBPS adaptive wired network port supports 24VPoE remote power supply and 12V/1A local DC power supply. The flexible power supply mode applies to various wireless engineering scenarios where power supply is difficult, reducing construction costs.

High efficiency and energy saving

Based on the IEEE802.3az standard hardware design, the device will automatically enter the low-power and power-saving mode when no one is using the network. Once a user accesses the network, the device will quickly and automatically switch to the normal mode. The whole energy-saving process is carried out without affecting the user's use, which can effectively reduce the power consumption by 30% and save a lot of wireless network operation costs.

🎯 Flexible accessory collocation

External RPSMA standard SMA connector with external thread and internal needle is provided with outdoor dual-band 5dBi glue-mounted omnidirectional antenna as a gift. Users can also flexibly match other dual-band antennas of 2.4G&5G frequency according to different usage environments.

🎯 Fashion compact, easy to install flexible

Stylish and generous appearance, support wall hanging/pole fixed installation, flexible installation, without affecting the original design on the basis of greatly reducing the difficulty of construction, improve construction efficiency.

🎯 IP65 grade dust-proof and waterproof, suitable for all kinds of harsh environment

The shell is equipped with IP65-level outdoor dustproof, waterproof and sunscreen capabilities. It can work normally in extreme environments ranging from -30° C to 55° C, easily adapted to harsh outdoor environments, and ensure the stable operation of the network for 24 hours.

🎯 Never stop product function update and performance optimization

Adhering to the spirit of craftsmanship, the R&D team has been updating and upgrading the product functions, so that the product can be simply and efficiently applied to a variety of scenarios and industries, to ensure that users get high-quality and stable wireless network experience.

Product specification

Hardware configuration	
Model	YA795
Main core	MT7628AN 300Mbps +MT7613BEN 867Mbps
Master frequency	550MHz
Wireless technology	2.4G:300M 802.11b/g/n MIMO 5G:867M 802.11a/n/ac MIMO
Memory	64MB DDR2 RAM
Flash	8MB
Network interface	LAN1/WAN PoE+LAN2 10/100Mbps Adaptive RJ45 interface
Push button	1*Reset Long press 3 seconds to restart, more than 6 seconds to restore factory Settings
Power consumption	<10W
Electric source	POE: 24V 0.5A, DC: 12V 1A

Working environment	temperature: -40°C~+55°C (Work) , -40°C ~+70°C (store) Humidity (non-condensing): 5%~90% (Work) , 5%~95% (store)
Size	160*90*40 (mm)
Weight	Net weight: 0.15 Kg; Gross weight: 0.35 Kg
Celestial line	RPSMA*2 Standard interface, 5dBi outdoor glue omnidirectional antenna *2, can be matched with other antennas

Radio-frequency characteristic

Frequency range	ISM: 2.400 ~ 2.4835 GHz
Channel	2.4G: 1、2、3、4、5、6、7、8、9、10、11、12、13 5.8G: 36、40、44、48、52、56、60、64、149、153、157、161、165
Modulation mode	802.11a: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11b: DSSS (DQPSK, DBPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)
Output power	2.4G: 11b @1~11M: 27±1dBm 11g @6~24M: 27±1dBm @54M: 23±1dBm 11n HT20@MCS0~2: 27±1dBm @MCS5/MCS7: 23±1dBm 5G: 11a @6~24M: 27±1dBm @54M: 23±1dBm 11n @MCS0~2: 27±1dBm @MCS5/MCS7: 23±1dBm 11ac HT80@MCS0~2: 27±1dBm @MCS5/MCS9: 23±1dBm
Receiving sensitivity	11ac: <-78dbm@MCS0 <-52dbm@MCS7 11n: <-85dbm@MCS0 <-67dbm@MCS7 11g: <-86dbm@6Mbps <-69dbm@54Mbps 11b: <-90dbm@1Mbps <-84dBm@11Mbps 11a: <-86dbm@6Mbps <-69dbm@54Mbps
EVM	802.11n: <-28 dB 802.11g: <-28 dB 802.11b: <-28 dB 802.11ac: <-32 dB
Frequency offset	±20ppm

AP software features

Working mode	AP mode (no setting, plug and play), routing mode, MESH mode
Tape load	64
Morphology	System status, wireless status, real-time traffic
Network configuration	DHCP/Static IP/PPPoE
Wireless configuration	Wireless switch, SSID, encryption mode, wireless password, wireless multimedia, terminal isolation, hidden wireless
System management	Name the device, upgrade the system, restore the configuration, back up the configuration, restore the factory defaults, and restart the device
Advanced configuration	Rf configuration, multiple wireless configuration, timing switch, Ping watchdog, scheduled restart, and password change Time management, diagnosis