YC801 Outdoor 4G Router

YC801 is a cost-effective outdoor wireless communication product developed based on 4G network requirements. It has full 4G network access, full-line compatibility with 4G/3G/2G networks, WiFi wireless rate up to 300Mbps, which can meet the needs of outdoor equipment to access the Internet, and is widely used in the Internet of Things communication industry. To provide users with wireless long distance data monitoring, acquisition and transmission functions.

Product, characteristics

Outdoor industrial design, 300M wireless

Outdoor IP65 windproof, rain proof, dust proof, sunscreen protection grade shell design, easily adapt to all kinds of outdoor harsh environment. Built-in professional wireless processor, wireless rate up to 300Mpbs, barrier-free transmission distance of about 100 meters, independent professional power amplifier and low noise amplifier, stable and smooth belt 30 sets, no delay, no drop.

Powerful never die system

Dual SOC hardware design, own system detection mechanism, own 4G network detection mechanism, own intelligent recovery mechanism, long-term stable operation, never crash.

Simple setting, one machine flexible multi-purpose

The default 4G access mode is plug and play. It supports switching between 4G mode, routing mode, and AP mode, and has built-in quick setting wizard to guide customers to complete the configuration easily. Routing mode, support wired broadband access; AP mode, easily convert wired networks into wireless WiFi networks. It supports both 4G and wired broadband access. In places where wired bandwidth cannot reach, it has the advantage of 4G Internet access and easy access to the Internet.

A variety of security policies to ensure the security of network data

Support WPA, WPA2 wireless security access, support SSID hiding and wireless blacklist effectively prevent network surfing, always ensure the security of users' network data.

TR069 Remote management

Support real-time viewing of device status parameters, batch remote device management, status notification, device agent management, so that the device has some control.

A variety of state statistics, always know the working state of equipment

Built-in traffic statistics, support traffic plan Settings, easy to understand the monthly traffic usage; View multi-status working indicators and real-time working logs to know the working status of the device at any time.

Product specification

Product parameter	
Hardware configuration	
Main chip	MTK7628KN
Master frequency	580MHz
Wireless technology	802.11b/g/n 300M MIMO technology
Flash memory	2MB
Memory	8MB
Device interface	WAN 10/100Mbps Adaptive network interface*1 LAN 10/100Mbps Adaptive network interface*1 SIM card
Antenna	4G 2T2R 5dBi Antenna*2 WiFi 2T2R 2.4G 5dBi Antenna*2
Power consumption	＜10W
Key	1 RESET button, long press 3 seconds to restore factory Settings
Indicator light	5 groups:POWER、LAN、WIFI、WAN/LAN、3G-4G
Size/Weight	90*43*172mm, 0.4KG
Working/storage temperature	-10℃～50℃/-40℃～70℃

Working/storage humidity	5%～95% (non-condensation)
WiFi characteristic	
Radio frequency parameter	802.11b/g/n:2.4~2.4835GHz
Modulation mode	11b: DSS:CCK@5.5/11Mbps,DQPSK@2Mbps,DBPSK@1Mbps 11g: OFDM:64QAM@48/54Mbps,16QAM@24Mbps,QPSK@12/18Mbps,BPSK@6/9Mbps 11n: MIMO-OFDM:BPSK,QPSK,16QAM,64QAM
Transmission rate	11b: 1/2/5.5/11Mbps 11g: 6/9/12/18/24/36/48/54Mbps 11n: Up to 300Mbps
Receiving sensitivity	11b: <-84dbm@11Mbps; 11g: <-69dbm@ 54Mbps; 11n: HT20<-67dbm HT40: <-64dbm
Transmitted power	11b: 18dBm@ 1~11Mbps 11g: 16dBm @ 6~54Mbps 11n: 15dBm@ MCS0~7
Communication standard	IEEE 802.3(Ethernet) IEEE 802.3u(Fast Ethernet) IEEE 802.11b/g/n(2.4G WLAN)
Wireless security	WPA/WPA2 Safety mechanism (WPA-PSK Use TKIP or AES)

4G characteristic	
Network system	LTE FDD/TDD、UMTS DC-HSDPA/HSUPA/WCDMA、GSM EDGE/GPRS
LTE-FDD(Support hierarchical reception)	B1/B3/B5/B8
LTE-TDD(Support hierarchical reception)	B34/B38/B39/B40/B41
WCDMA	B1/B5/B8
GSM	900/1800MHz

Data	LTE: LTE FDD: Up to 150Mbps (DL) /Up to 50Mbps (UL) LTE TDD: Up to 130Mbps (DL) /Up to 30Mbps (UL) UMTS: DC-HSDPA: Up to 21Mbps (DL) HSUPA: Up to 5.76Mbps (UL) WCDMA: Up to 384Kbps (DL) /Up to 384Kbps (UL) GSM: EDGE: Up to 296Kbps (DL) /Up to 236Kbps (UL) GPRS: Up to 107Kbps (DL) /Up to 85.6Kbps (UL)
Transmitted power	Class 3 (23dBm±2dB) for LTE FDD bands Class 3 (23dBm±2dB) for LTE TDD bands Class 3 (24dBm+1/-3dB) for WCDMA bands Class E2 (27dBm±3dB) for EGSM900 8-PSK Class E2 (26dBm±3dB) for DCS1800 8-PSK Class 4 (33dBm±2dB) for EGSM900 Class 1 (30dBm±2dB) for DCS1800
Spirit acuity	FDD B1: -99dBm (10M) FDD B3: -99dBm (10M) FDD B5: -100dBm (10M) FDD B8: -100dBm (10M) TDD B34: -98dBm (10M) TDD B38: -100dBm (10M) TDD B39: -98dBm (10M) TDD B40: -99dBm (10M) TDD B41: -99dBm (10M) WCDMA B1: -110dBm WCDMA B5: -110dBm WCDMA B8: -110dBm EGSM900: -108dBm DCS1800: -108dBm

Software characteristic	
Working mode	4G access mode, routing mode, and AP mode
Tape load	30 pcs
Management mode	WEB Remote management
Morphology	System status, interface status, and routing table
Wireless configuration	WiFi Basic parameter Settings/blacklist
Network setup	Working mode

	LAN 口/WAN Address setting
Traffic assistant	Traffic statistics/package Settings/traffic control
System	Systemproperties/Passwordmodification/backup/upgrade/system logs/Restart
Setup wizard	Quick configuration wizard
Indicator flashing rule	
POWER	Connect to the POWER supply and the power indicator is steady blue
2.4G	The 2.4G WiFi is on and the 2.4G indicator is steady blue
4G	In 4G network mode, when the 4G network is normal, the 4G indicator is steady blue. In 4G mode, the 4G is abnormal and the blue indicator blinks
WAN	During data access, the WAN indicator is steady blue
LAN	During data access, the LAN port indicator is steady blue