

## LTE INDOOR CPE (CAT4)

### ST-WD431N



#### Product Overview :

ST-WD431N is a cost-effective wireless communication product based on 4G network requirements. The WiFi wireless speed is up to 300Mbps, which can meet the needs of stable, secure and simple Internet access for small networks such as offices and homes. It can also be applied to the Internet of Things communication industry. Provide users with wireless long-distance data monitoring, acquisition and transmission functions. Full Netcom 4G network access, full line compatible with 4G/3G/2G network, equipped with 2 10/100M adaptive Ethernet LAN interfaces, connected to internal LAN; 1 10/100M adaptive Ethernet WAN interface, available Wired broadband access

#### Features :

##### • Industrial design, 300M wireless

Using professional wireless processor, wireless speed up to 300Mbps, barrier-free transmission distance of about 100 meters, independent professional power amplifier and low noise amplifier, stable and smooth belt machine 30, not stuck, not dropped

##### • Simple to set up, flexible and versatile

Support 4G mode, routing mode, AP mode, built-in quick setup wizard, guide customers to complete the configuration easily. The default 4G access mode, plug-and-play; routing mode, support for wired broadband access; AP mode, easily convert the wired network into a wireless WiFi network. Support 4G and wired broadband access modes, support mobile Unicom Telecom 4G/3G/2G network card, 4G Internet access advantage in places where wired bandwidth cannot reach, 4G and wired automatic switching, never-ending

##### • Multiple security policies to ensure network data security at all times

Support WPS, WPA, WPA2 wireless security access, support SSID hiding and wireless blacklist to effectively prevent network, and ensure user network data security at all times.

##### • A variety of status statistics, always know the working status of the device

Built-in traffic statistics, support for traffic plan settings, easy to understand monthly traffic usage; multi-state work indicator, real-time work log view, always know the working status of the device.

##### • Uninterrupted product feature updates and performance optimization

The R&D team with the spirit of craftsman has been constantly updating the functions to meet the needs of various network environments in a simple and efficient manner. The refined performance optimization ensures the best quality network products and enhances the user experience.

Product specifications		
<b>General</b>	Main chip	MTK7628KN 300M high performance enterprise chip
	Main frequency	580MHz
	Wireless technology	802.11b/g/n 300M MIMO technology
	Flash memory	2MB
	RAM	8MB
	Device interface	WAN 10/100Mbps Adaptive Network Interface*1 LAN 10/100Mbps adaptive network interface*2 SIM card, big card
	Power consumption	< 10W
<b>WiFi</b>	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
	Transmit 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 security mechanism (WPA-PSK uses TKIP or AES)

Product specifications		
RF Parameter	Network standard / GNSS	EC20 CE FHKG
	LTE-FDD(supports hierarchical reception)	B1/B3/B5/B8
	LTE-TDD(supports hierarchical reception)	B38/B39/B40/B41
	WCDMA	B1/B8
	TD-SCDMA	B34/B39
	CDMA	Bc0
	GSM	900MHz/1800MHz
	GNSS function	GPS、GLONASS、BeiDou/Compass, Galileo,QZSS
	Transmit power	Class 4 (33dBm±2dB) for GSM900 Class 1 (30dBm±2dB) for DCS1800 Class E2 (27dBm±3dB) for GSM900 8-PSK Class E2 (26dBm±3dB) for DCS1800 8-PSK Class 3 (24dBm+2/-1dB) for CDMA Bc0 Class 3 (24dBm+1/-3dB) for WCDMA bands Class 2 (24dBm+1/-3dB) for TD-SCDMA bands Class 3 (23dBm±2dB) for LTE-FDD bands Class 3 (23dBm±2dB) for LTE-TDD bands
	LTE features	Maximum support 3GPP R8 non-CA Cat 4 FDD and TDD Support 1.4MHz~20MHz RF bandwidth Downlink support MIMO LTE-FDD: Maximum downlink rate 150Mbps, maximum uplink rate 50Mbps LTE-TDD: Maximum downlink rate 130Mbps, maximum uplink rate 35Mbps
	Standard	802.11b/g/n:2.4~2.4835GHz

Product specifications		
RF Parameter	UMTS features	Support 3GPP R8 DC-HSDPA, HSPA+, HSDPA, HSUPA and WCDMA Support QPSK, 16-QAM and 64-QAM modulation DC-HSDPA: Maximum downstream rate 42Mbps HSUPA: Maximum upstream rate 5.76Mbps WCDMA: Maximum downlink rate 384Kbps, maximum uplink rate 384Kbps
	TD-SCDMA features	Support CCSA Release 3 TD-SCDMA Maximum downlink rate 4.2Mbps, maximum uplink rate 2.2Mbps
	CDMA features	Support for 3GPP2 CDMA2000 1X Advanced and 1xEV-DO Rev.A EVDO: Maximum downlink rate 3.1Mbps, maximum uplink rate 1.8Mbps 1 X A d va n c e d: maximum downlink rate 307.2Kbps, maximum uplink speed 307.2Kbps
Software	Operating mode	4G access, routing mode, AP mode
	With quantity	30 people
	State	System status, interface status, routing table
	Wireless configuration	WiFi basic parameter configuration / blacklist
	Network settings	Operating mode LAN port / WAN address setting
	Traffic assistant	Traffic statistics / package settings / flow control
	System	System Properties / Password Modification / Backup Upgrade / System Log / Restart
	Setup Wizard	Quick configuration wizard

Product specifications

Unit Interface	Working/storage temperature	-10°C ~ 50°C/-40°C ~ 70°C
	Work/storage humidity	5% to 95% (non-condensing)
	Indicator light	6 groups: POWER, WIFI, 4G, WAN, LAN1, LAN2



**SUMICO**

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