soltek
beyond the edge

300M WiFi Wireless Router

ST-WD433N

Product Overview :

ST-WD433N is a cost-effective wireless communication product developed based on the demand for 4G network. It supports WiFi wireless speed up to 300Mbps, meeting the stable, secure, and easy internet access needs for small networks such as offices and homes. It can also be applied in the field of IoT communication, providing users with wireless long-distance data monitoring, collection, and transmission capabilities. It supports universal access to 4G networks and is equipped with two 10/100M adaptive Ethernet LAN interfaces for internal LAN connection. Additionally, it has one 10/100M adaptive Ethernet WAN interface for wired broadband access. Based on the TR069 protocol, centralized management platform for remote centralized management, easy monitoring of device status during large-scale deployments.

Features :

1) Industrial device design with built-in multiple protections such as electrostatic, surge, and fast electrical pulse groups, easily adapting to various harsh environments to ensure long-term stable and reliable operation.

2) Independent wireless routing processing chip and 4G processing chip module, each performing its own function, dual-path concurrency, ensuring the stability and usability of the entire system.

3) Supports 4G access to Telecom, China Unicom, Mobile, and Broadcasting networks, supports APN/VPDN connections.

4) Supports routing mode, AP mode, and 4G LTE wireless access, flexible networking, suitable for various complex scenarios.

5) Provides 802.11b/g/n WiFi 300M wireless access, equipped with high-gain antennas, achieving a range of up to 30 meters in open and unobstructed environments. It also provides 10/100Mbps wired access, supporting up to 16 devices in standby mode.

6) Supports WPA/WPA2, SSID hiding, and blacklist, effectively ensuring the security of user data.

7) Rich status indicator lights, status overview, and easy-to-read log system, easily knowing the device's working status. Built-in traffic statistics and traffic assistant function, keeping track of the usage of data traffic.

8) Built-in quick setup wizard, no professional knowledge required, easy to use 4G LTE access for WiFi internet.

9) Customizable deployment based on the TR069 protocol centralized management platform, providing constant awareness of device operational status for easy management in large-scale deployments.

10) Continuous product updates, feature and performance optimization, never resting, ensuring the ability to cope with various network environments and enhancing user experience.
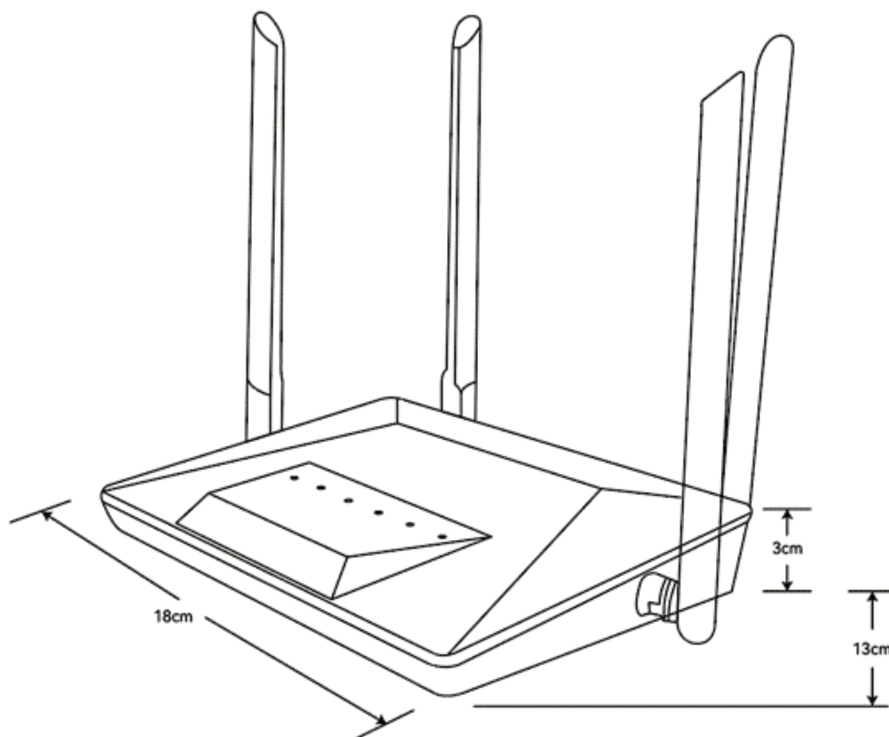
Product specifications		
Hardware Configuration	Main chipset	MT7628KN
	Clock Frequency	575MHz
	Memory	8MB
	Flash	2MB
	Wireless Technology	802.11b/g/n 300Mbps MIMO
	Device interface	WAN*1/LAN*2 10/100Mbps auto-negotiation Standard SIM card (Mini-SIM) DC power supply interface, suitable for power plug with outer diameter of 5.5mm, inner diameter of 2.1mm, and length of over 9.5mm
	Button	RESET, press and hold for 5 seconds to restore factory settings
	Indicator	POWER、WiFi、4G、WAN、LAN1、LAN2
	Antenna	External 2.4G 5dBi rubber rod antennas *2 External 4G LTE 5dBi rubber rod antennas *2
	Power	DC 12V/1A, positive on the outer side and negative on the inner side
	Operating/Storage Temperature	-10℃～45℃/-20℃～70℃
	Operating/Storage Humidity	5%～95%（Non-condensing）
	Product Weight	0.5kg
WiFi	Frequency Range	802.11b/g/n:2.4~2.4835GHz
	Channel	1、2、3、4、5、6、7、8、9、10、11、12、13
	Modulation	802.11b: DSSS (DQPSK, DBPSK, CCK) 802.11g: OFDM (BPSK, QPSK,16-QAM) 802.11n: OFDM (BPSK, QPSK,16-QAM, 64-QAM)
	Transmission Rate	11b up 11Mbps,11g up 54Mbps,11n up 300Mbps

Product specifications		
WiFi	Receiver Sensitivity	11b：≤-90±1.5dBm @1Mbps， 　　　≤-84±1.5dBm @11Mbps 11g：≤-86±1.5dBm @6Mbps， 　　　≤-69±1.5dBm @54Mbps 11n 20MHz：≤-85±1.5dBm @MCS0， 　　　　≤-67±1.5dBm @MCS7 11n 40MHz：≤-82±1.5dBm @MCS0， ≤-64±1.5dBm @MCS7
	Transmit Power	11b: ≥20±1.5dBm@11Mbps 11g: ≥20dBm±1.5dBm@54Mbps 11n: ≥20dBm±1.5dBm@MCS7
4G	Network Standard	LTE FDD/TDD
	LTE-FDD	B1/B3/B5/B8(supporting hierarchical reception)
	LTE-TDD	B34/B38/B39/B40/B41 (supporting hierarchical reception)
	Transmission Rate	LTE FDD: Up 150Mbps(DL)/Up 50Mbps(UL) LTE TDD: Up 130Mbps(DL)/Up 30Mbps(UL)
	Transmit Power	Class 3 (23dBm±2dB) LTE FDD Bands Class 3 (23dBm±2dB) LTE TDD Bands
	Receiver Sensitivity	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)

Product specifications		
Software Functions	Working Mode	4G/Router/AP
	Number of connected users	16 Peoples
	Management	The English web remote management/ Batch management based on the TR069 centralized management platform."
	Status	-System Status/4G Status/Interface Status -User List -Black List
	Network Configuration	-Network Configuration: Operating Mode (4G/Router/AP)/LAN/WAN -APN Settings
	WiFi Settings	WiFi Switch/WiFi name/Encryption/WiFi password/ Hide WiFi/Wireless protocol/Wireless bandwidth/ Wireless channel/WiFi signal strength
	Flow Assistant	Used/Remaining/This month has been used/Today Has been used/The end of the month/Monthly Package flow/Monthly settlement date/Flow control switch
	System Management	-Managed Password -Local Time -Upgrade/Reset: Reset to defaults/Download backup configuration/Restore backup/Local Upgrade -System Log -Network Detection -Reboot: Reboot immediately/
	Setup Wizard	System mode-WiFi

Product Dimensional Drawing

Packaging Information:

ST-WD433N*1, DC 12V/1A Power Adapter*1, Ethernet Cable*1, User Manual

SUMICO
Tarvij Sanat Sumi Parsian Co. LTD
No.1, 4th Narges Alley, Azadi Bolv. Shams-Abad Industry Park,
Tehran-Qom Highway, Hasan Abad Fashafooye, Tehran, Iran
Tel: +98 21 43614000   Fax:+98 21 43614300
E-Mail:info@sumico.ir   PC: 1834179535

توجه :
sumico حق تغییر مشـــــخصـــــات را بدون اطلاع قبلی دارد. اگر چه اطلاعات جمع آوری شده در این
دیتاشیت با دقت صورت گرفته، ولی نباید تضـمینی برای محصول نهایی گردد. sumico فقط در رابطه با
مشخصـاتی که عیناً در فاکتور فروش و هنگام عقد قرارداد قید میشـود، مسـئولیت دارد. هرگونه استفاده و
کپی برداری از منابع و محصــولات ، تنها با اجازه نامه کتبی از sumico مجاز میباشد و هرگونه استفاده غیر،
پیگردقانونی دارد.