# STR880-4S 5G & Wi-Fi6 M2M Router

# Datasheet

## Overview

Maipu STR880-4S is a brand new 5G M2M router, applicable to the data transmission service under the environment that goes against the wired network. It adopts the 5G high-speed wireless network as the data-bearing network to provide a safe and high-speed wireless connection for customers. No matter where you are, your device can use the 5G network to connect Internet or enterprise private network. STR880-4S 5G M2M Router meets the requirements of enterprise/SMB/industrial users. It has the features of low power consumption, small dimension, and lightweight. Under strict EMC testing, it is the ideal choice for customers.



**STR880-4S Series 5G M2M Router**

The STR880-4S provides high-speed wireless network access. It uses a built-in 5G module that shares the 5G network provided by your local mobile operator, allowing your device to connect to high-speed Internet or a private corporate network.

The STR880-4S has rich VPN functions and can be connected to a secure private channel of the enterprise based on the 5G network. Meanwhile, the device data can be transmitted in the secure IPsec/GRE/L2TP/OpenVPN VPN tunnel, preventing the data from being accessed and tampered and providing the higher security for the application over Internet.

STR880-4S supports one 5G modem and two SIM cards from different mobile operators. The two SIM cards can work in the active-standby mode. If one of the 5G links is working unstably, STR880-4S will try to dial through the other SIM card.

STR880-4S offers a comprehensive 5G SA/NSA solution for the industrial application over the 5G mobile network, it can be managed by the Maipu M2M cloud management platform(IOM), and the customer can remotely configure and monitor the router through this platform. This will greatly decrease the OPEX and increase the working efficiency.

STR880-4S supports the latest Wi-Fi6 wireless technology at 160MHz channels, which can be used in a branch office environment. WiFi6 standard offers faster data transmission speed, and the maximum potential speed should be up to 40% higher than Wi-Fi5 because of more efficient data encoding, resulting in higher throughput.

# Technical Specifications

| Product Series | STR880 Series | |
|---|---|---|
| Model | STR880-4S | |
| Memory | 256MB | |
| Flash | 128MB | |
| SIM Slots | 2 | |
| 5G NR Modem | 1 | |
| 5G Standard | 3GPP Release 15 NSA/SA operation, Sub-6 GHz | |
| Bands Information | **STR880-4S (V2):**<br>**NR NSA:** N1/3/7/38/40/41/77/78<br>**NR SA:** N1/3/5/7/8/20/28/38/40/41/66/77/78<br>**FDD-LTE:** B1/2/3/4/5/7/8/20/28/66<br>**TDD-LTE:** B38/40/41<br>**WCDMA:** B1/2/5/8 | **STR880-4S (V3):**<br>**NR NSA:** N1/3/5/7/8/20/28/38/40/41/71/75/76/77/78<br>**NR SA:** N1/3/5/7/8/20/28/38/40/41/71/75/76/77/78<br>**FDD-LTE:** B1/3/5/7/8/20/28/32/71<br>**TDD-LTE:** B38/40/41/42/43<br>**WCDMA:** B1/5/8 |
| GE Base-T Interface | 5*1000M Gigabit Interfaces | |
| Wi-Fi (Optional) | 802.11b/g/n/ac/ax, 160Mhz, AX3000 | |
| LED indicator | System, SIM Card, Ethernet Port, Signal Strength | |
| Chassis material | Metal Shell | |
| Fan design | Fanless | |
| Input voltage (DC) | External AC Adapter, DC input | |
| Dimension (W*D*H) | 220mm*125mm*30mm | |
| Temperature | Long-term work temperature: -25°C~60°C | |
| | Storage temperature: -40°C-80°C | |
| Humidity | Work humidity: 10%-95% non-condensing | |
| | Storage humidity: 5%-95% non-condensing | |
| **Software features** | | |
| Basic functions | DNS/DDNS, DHCP, ICMP, LCP, PPPoE, PAP, CHAP, NDIS, DDR | |
| 3G/4G/5G function | 3G/4G/5G Band Selection, Band Lock, PIN management | |
| Routing Protocol | Static Routing, RIP, OSPF, BGP | |
| Link Failover | Based on IP reachability, Network latency, Signal Strength | |
| Security Functions | NAT, PAT, ACL, Basic Firewall | |
| VPN Function | IPSec VPN, GRE VPN, L2TP VPN, PPTP VPN, OpenVPN, DMVPN(Optional) | |

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| Encryption | DES, 3DES, AES |
|---|---|
| Diagnosis Tool | Ping, Traceroute, DNS lookup |
| QoS Functions | Rate Limitation |
| System Status Log | 3G/4G/5G Log, DHCP/DNS Log, IPSec Log, Boot Log, etc. |
| Management | Console Management, Web Management, Cloud Management |

# Order Information

| Host model | Description |
|---|---|
| STR880-4S | V2 Version: 1-Port 10/100/1000Mbps Ethernet RJ45 WAN port, 4-Ports 10/100/1000Mbps Ethernet RJ45 LAN, 2*SIM slots, 1*5G NR Modem, Wi-Fi6 Optional, external antenna design, 12V DC power adaptor.  (Note: Mainly for Asia, Europe rigions) |
| STR880-4S | V3 Version: 1-Port 10/100/1000Mbps Ethernet RJ45 WAN port, 4-Ports 10/100/1000Mbps Ethernet RJ45 LAN, 2*SIM slots, 1*5G NR Modem, Wi-Fi6 Optional, external antenna design, 12V DC power adaptor.  (Note: Mainly for Asia, Europe, Middle-East, America rigions) |

Maipu values and appreciates comments you may have concerning our products or this document. Please address comments to:

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