

4G Router industrial grade

MINI 4G Router Motherboard

overview

SHF283 is a 4G mini router motherboard. Utilizing the MT7628 mainframe, the SHF283 delivers superior wireless rates and signal strength. This new router provides high data transmission for gateway data, voice and image applications in the smart home, while consuming far less power than other similar products on the market. The portable and compact design also meets the need for travel-optimized networks.

The integrated 2T2R 802.11n Wi-Fi radio and 580MHz MIPS 24KEc CPU consumes 18% less power than other chipsets on the market and delivers outstanding wireless communication performance and throughput, allowing consumers to easily control their home network, online appliances, and cloud services from home or far away. It can be used for message interception, small in-vehicle WIFI, image-video return, courier lockers, charging piles, vending machines, remote control for industrial automation, integration of other Internet-enabled devices, and corporate-grade backup network applications. The main features of this motherboard are: wide power supply range, low power consumption, modular design, and multi-function board. Customers can choose different configurations according to their actual situation, saving their development cost and development cycle. In addition, we also provide secondary development software and hardware technical support, as well as a variety of customization and other full-service, convenient for customers to quickly do the integration, professional application promotion.

Hardware

Adopt MT7628 main chip, main frequency up to 580MHz

Memory DDR2 128M, Flash NOR: 16M

1 WAN +3 LAN 10/100Mbps adaptive network port;

Support “one key flash mode”, long press reset button to enter recovery mode;

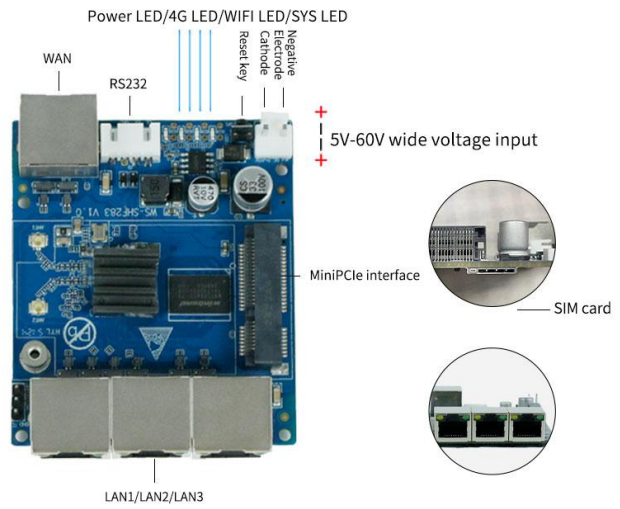
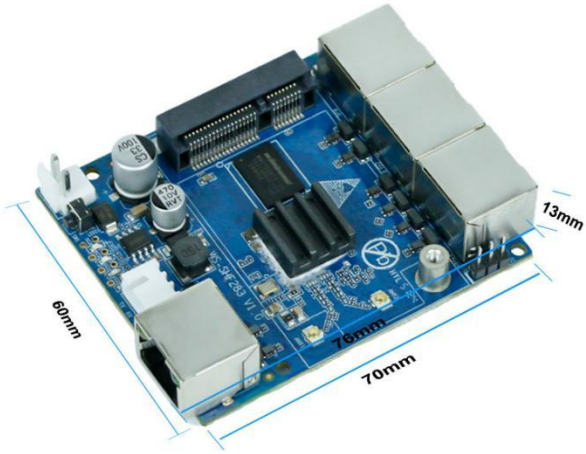
Support wide voltage 5V-60V power supply

Support RS232 serial port

specificities



Exterior



Application



courier cabinet



charging post



vending machine



Car WIFI



Technical specifications

SHF283 Hardware Specifications	
Hardware Specifications	High performance MT7628N chip Memory 128MB Flash 16MB
Protocol Standards	IEEE802.11n/g/b/a IEEE802.3/802.3u
Wireless Rate	300Mbps
Operating Frequency Bands	2.4GHz
output power	11n: 17dBm±1dBm 11g: 17dBm±1dBm 11b: 19dBm±1dBm 11a: 19dBm±1dBm
receiver sensitivity	11N HT20 MCS7: -72dBm 11N HT40 MCS7: -69dBm 11G 54Mbps: -74dBm 11B 11Mbps: -86dBm 11A 54Mbps: -73dBm
antennae	2* external Wi-Fi antennas
interfaces	3*10/100Mbps LAN Ports, Auto MDI/MDIX. 1*10/100Mbps WAN port, auto MDI/MDIX. 1*minipcie interface, support 4G module 1*2 Pin 3.96mm Power Connector 1*Nano sim 1*RS232 4PIN 2.54 pitch
LED Lights	Power/System/WIFI/4G
Pushbuttons	Reset Button
Power Adapter	1*2 Pin 3.96mm power connector (5V-60V)
Maximum Power Consumption	< 8W

SHF283 Software Specifications	
Factory Default Settings	IP address: 192.168.1.1 User/Password: root/password
WAN Access Mode	PPPoE, Dynamic IP, Static IP/4G modes
Operation Mode	Router (customizable to add AP mode);
DHCP server	DHCP Server Client List. Static address assignment.
virtual server	Port forwarding. DMZ hosting.
Supported Systems	Original SDK, openwrt LEDE, QWRT
Security Settings	Wireless encryption, supports WEP, WPA, WPA2 and other secure encryption modes
DDNS	Support
VPN	Supported
WEB Theme Switching	Supported
Bandwidth Control	Supported
Static Routing	Supported
System Log	Support
Other useful functions	Configuration file import and export Network Software Upgrade ...
SHF283 Other Specifications	
working environment	Operating temperature: 25°C to 70°C. Storage temperature: -40°C to 70°C. Operating Humidity: 10% to 90%RH non-condensing. Storage Humidity: 5% to 90%RH non-condensing.