

# SS5038



**RS232/485 to 3G/4G Gateway**

**Modbus RTU to MQTT**

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# Summary

SS5038 is a new 4G DTU/ 4G router .

SS5038: support RS232/485 to 4G, do not support Ethernet port. Support serial port configuration. It can be used as a 4G router. Support serial port configuration, Web configuration. Support the MQTT.



**FIG. 1 XN 5038**

The SS5038 use the latest 4G chipset, which ensures powerful functions and stability while achieving a lower price and a high-cost performance. It supports 7-mode all-NetCom system, support all cards of Telecom, Mobile. 5038 supports the MQTT protocol and the Modbus TCP to RTU protocol. Industrial temperature range of -45 ~ 85 degrees is supported. Support for custom registry packages and heartbeat packages. Support remote upgrade on Server Side.

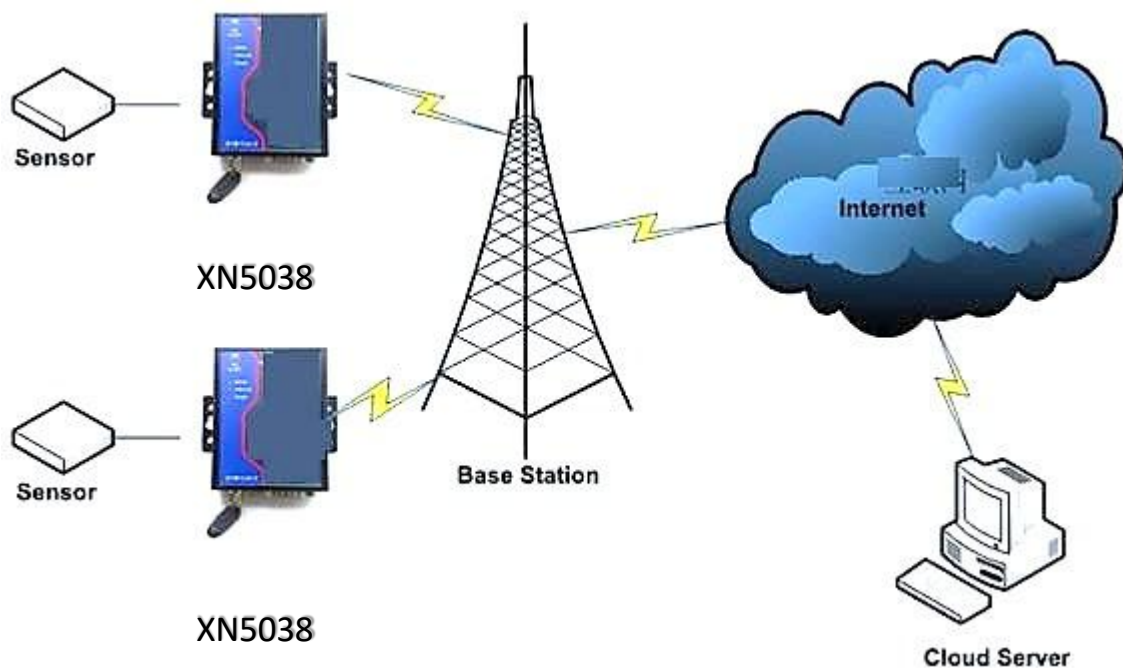
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In addition, SS5038 can also be customized for various special needs, including when the network is not available, the local storage of 100 megabytes of data, when the network is in connection then uploads the server.

The default SS5038 is equipped with a 4G antenna sucker, also can be equipped with guide rail accessories. At the same time, the power supply terminal can provide two power supply modes of power socket and terminal type (the choice of delivery).

SS5038 is suitable for the following application fields:

- 1) Data collection in the field of industrial Internet and industrial automation.
- 2) Power data acquisition and monitoring.
- 3) Access control, security.
- 4) Collection and monitoring of hydrological, meteorological and environmental data.
- 5) Intelligent transportation, vehicle data collection.



**Figure 2 Application Environment Diagram**

# Features

- 1) It supports 7 standard modes, including 4G and 3G networks.
  - 2) Support TCP Server, TCP Client, UDP mode. Support multiple TCP Client connections when as Server.
  - 3) The serial port supports 1200~460800 baud rate, 5~8 bits of data, no check, odd check and even check, 1~2 stop bits, no flow control, hard flow control and soft flow control.
  - 4) Support serial port to 4G router application and support DHCP Server.
  - 5) Support serial port transparent transmission and MQTT protocol.
  - 6) Support serial port AT command configuration, support WEB configuration, support Xcorn.exe software to view some parameters.
  - 7) Support for custom registry packages, custom heartbeat packages.
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# Technical Parameters

<b>Support Model</b>	7 modes are supported:  B1 / B3, B5 / B8 @ FDD LTE B34 B38 / B39 B40 / B41 @ TDD  LTE B1 / B8 @ WCDMA  B34 / B39 @ td-scdma BC0 @ CDMA2000 1  x/EVDO B3 / B8 @ GSM  Including 4G and 3G networks.
<b>Transmission Rate</b>	LTE-FDD : Max 150Mbps (download) /Max 50 Mbps (uplink) LTE-TDD : Max130Mbps (download) /Max 30 Mbps (uplink) WCDMA : 384Kbps (download) /Max384Kbps (uplink)  TD-SCDMA : Max 4.2Mbps (download) /Max 2.2 Mbps (uplink) EDGE : 296Kbps (download) /Max236.8Kbps (uplink) GPRS : 107Kbps (download) /Max85.6Kbps (uplink)
<b>SIM Card</b>	Voltage: 3V, 1.8V; Size: Big Card
<b>Antenna Interface</b>	Optional 50Ω/SMA glue stick antenna or sucker antenna
<b>Serial Port Type</b>	RS-232/RS-485
<b>Serial Port Parameter</b>	Baud Rate: 1200~460800bps; Data bit: 5~8; Stop bit : 1~2; Flow Control: Hardware, Software; Check bit: None, Odd, Even, Mark, Space
<b>Input Voltage</b>	DC9V~24V
<b>Operating Temperature</b>	-40~85℃
<b>Running temperature:</b>	-40~90℃
<b>Storage temp:</b>	0~95% Non - Condensing
<b>Size:</b>	L×W×H=9.4cm×6.5cm×2.5cm