



Overview

For acquiring the remote operating parameters and process management, NT-S1-4G IOT Gateway help machine to access internet via GPRS/4G and establish TCP/IP connection with server. NT-S1-4G can be widely used in industrial automatic control, base station / computer room monitoring, environmental monitoring, water conservancy project, power industries, agriculture, etc.



Basic Features:

RS485	<ul style="list-style-type: none"> ★ 1 RS485 port ★ Support Modbus RTU protocol over RS485 ★ Can be Modbus master read 32 registers from slaves ★ Support transparent forward mode over RS485
4G communication	<ul style="list-style-type: none"> ★ RS485 to GPRS/4G two-way data transmission ★ Connect server with MQTT protocol (JSON format) or Http post ★ Can connect up to 4 servers (support Static IP address or domain)
System	<ul style="list-style-type: none"> ★ Adopted highly integrated industrial 32-bit ARM MCU ★ Reliable performance with built-in double watchdog, 24×7 operation ★ Network-reconnect and retransmission to ensure data accurately transmit ★ Update RTC automatically by NTP ★ 9-28V DC wide range voltage supply ★ Configure by mini-USB port, provide windows configure software

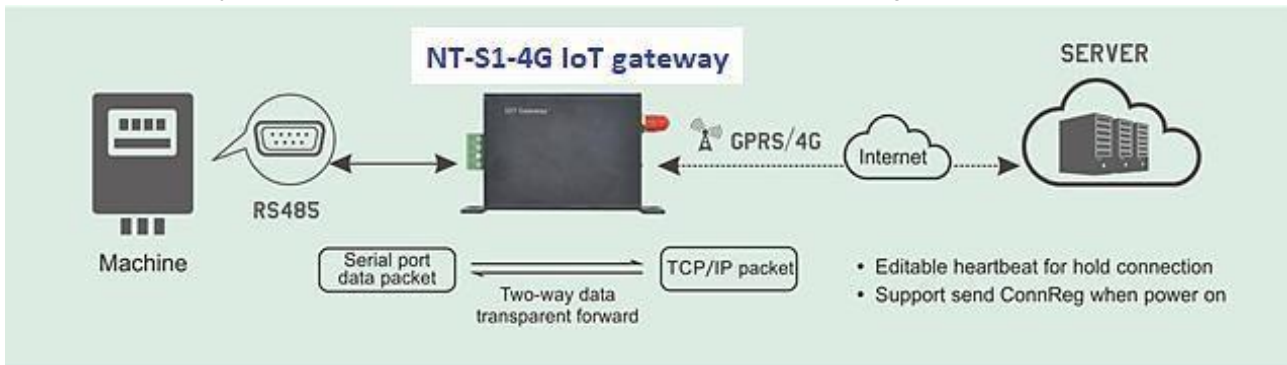
Communication mode

1. Modbus master mode over RS485:

NT-S1-4G IoT Gateway as Modbus master read slave over RS485 and push data to server by MQTT or http post



2. Mode A: Two-way data transparent forward between RS485 and server Not change the communication data format



Specifications

Core	MCU	Cortex M3 32-bit ARM
Power	Power supply	9-28V DC (Standard adapter: DC 12V/1.5A)
	Consumption	12V input Max. 150mA/Average 50mA
Network	Optional Network	GSM/GPRS (4 band 850/900/1800/1900Mhz) FDD LTE(4G)
Config port	Mini USB	CH341 chip
Other interface	SIM/UIM	Standard user card interface
	Antenna	Standard SMA female interface (50Ω)
Working Environment	temperature	-30°C ~ +70°C
	humidity	5 ~ 95%(non-condensing)
Physical	Terminals	1×4pin 3.81mm spacing, pluggable
	Housing	Providing IP30 protection
	Dimension	21×51×65mm
	Weight	150G

Size Diagram



Package list

gateway×1, antenna×1, USB cable×1



