

# Embedded Serial Device Server

**Model: USR-GM1**

## Overview

USR-GM1 is a low power GPRS module in tiny size, which can be embedded in your pcb design to transmit data through GPRS / GSM network.

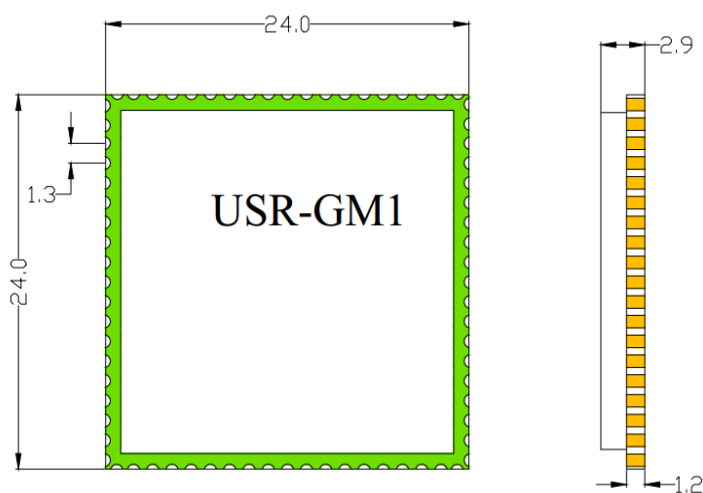
This module can realize two-way data transparent transmission between COM and GPRS / GSM network by using a SIM card.

## Main Features

- ◆ Support virtual serial port, FREE software is available
- ◆ Use single module, embedded TCP / IP Protocol stack, without external CPU, Higher stability
- ◆ Support public and APN network access
- ◆ Support heartbeat, Always Online mode, can keep connection with server
- ◆ Support KEEP-ALIVE, to maintain connection if there is no heartbeat packet
- ◆ Support network connection in Max 4 Channel, can send data from serial port to different servers
- ◆ Transparent transmission, can take place of data transfer radio, don't need to change your original system
- ◆ SMT type footprint, convenient for integration
- ◆ Support configure by Computer set-up software / Serial AT Command / SMS AT Command



## Dimensions



## ■ ■ ■ Specifications

Network	
Standard	GSM / GPRS
Speed	14.4 Kbps ~ 57.6 Kbps
Standard Frequency	850 / 900 / 1800 / 1900MHz
GPRS Multi-slot Class	GPRS Class 10
GPRS Device Class	Class B
GPRS Coding Schemes	CS1 ~ CS4
Max Launch Power	GSM900 class4 (2W) DCS1800 class1 (1W)
Application	GSM standard AT instruction set USR extension AT instruction set Data transmission SMS transmission
Network Protocol	TCP, UDP, DNS, Httpd client
Network Link Count	4
Disconnection Buffer	4 x 15K Bytes
Network Buffer	Send: 15K Bytes Receive: 30K Bytes
Basic Parameter	
Size	24 x 24 x 2.9 mm (L*W*H)
Operating Temp.	-40 ~ 85°C (industry)
Storage Condition	-40 ~ 85°C 5 ~ 95% RH (no condensation)
Input Voltage	VCC 3.6 ~ 4.4V Recommend: 4V
Working Current	Average: 100 ~ 200mA Max: 1200mA

Serial	
Port Number	1-port
Interface Standard	TTL: SMT 2.8~3.6V
Data Bit	5, 6, 7, 8
Stop Bit	1, 1.5, 2
Check Bit	None, Even, Odd
Baud Rate	300 bps ~ 115200 bps
Serial Buffer	Send: 1K Bytes Receive: 1K Bytes
Flow Control	Null
Device Interface	
Speech Interface	1 channel MIC input 1 channel SPEAK output
SIM Card	1.8V / 3V
Software	
Virtual Serial Software	Windows 2000 or higher (32 bit / 64 bit)
DNS	Support
More	
Warranty	2 years

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