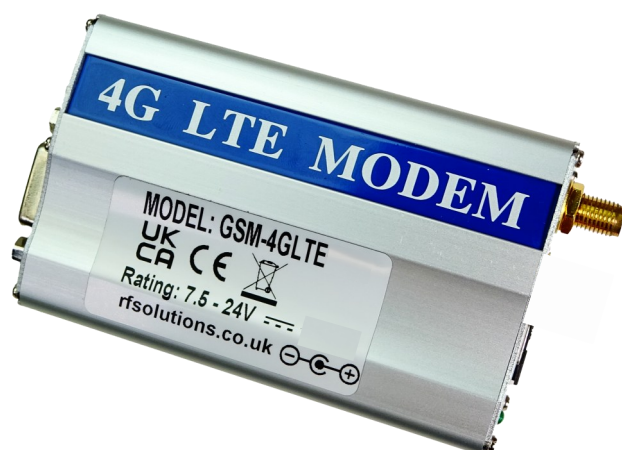




4G / LTE Cat 1 / GSM MODEM

Features:

- RS232+USB interface
- Based on Simcom A7670E (for Europe and ASIA)
- GSM/GPRS/EDGE 900/1800MHz
- 4G LTE FDD B1/B3/B5/B7/B8/B20
- LED Indicates power and 4GLTE signal
- SMA Antenna Connector
- Rugged Aluminium Enclosure
- 1.8-3V SIM card slot
- Supply voltage 7.5-24Vdc
- Operating Temp -30 to +80°C
- LTE CAT1
 - Max 5Mbps Upload
 - Max 10Mbps Download
- EDGE:
 - Max 236.8Kbps Upload
 - Max 118Kbps Download
- Coding Scheme: MCS 1-9
- GPRS:
 - Max 85.6Kbps Upload
 - Max 42.8Kbps Download
- Coding Scheme: CS 1-4
- Supply voltage 7.5-24Vdc
- Operating Temp -20 to +80°C



Kit Includes:

- GSM Modem
- Mounting Brackets
- GSM Antenna
- Power Supply
- RS232 Cable
- USB Cable



Part Number

Part Number	Description
GSM-4GLTEGPS	4G Modem Kit for EU and ASIA

Interface Description:

The GSM Terminal provides the following connectors for power supply, interfacing and antenna:

- 2.1mm DC power connector (centre/inner pin is positive)
- 9-(female) D-SUB plug for RS-232 serial interface
- USB Connector
- SMA connector for antenna (radio interface)
- SIM card holder



Status LED

The LED displays the operating status of the terminal. The table below summarises the coding of the red LED status.

Operating status	LED
Power Down	Off
Standby (Registered to the net)	On
Talk mode, GPRS data	Blinking

RS232 Interface

Via RS-232 interface, the host controller controls the TMA5 GSM/GPRS terminal and transports data. The table below shows the pin assignment of RS-232 (D-SUB 9-pin female).

Pin no.	Signal name	I/O	Function
1	/DCD	O	Data Carrier Detected
2	/RXD	O	Receive Data
3	/TXD	I	Transmit Data
4	/DTR	I	Data Terminal Ready
5	GND	-	Ground
6	/DSR	O	Data Set Ready
7	/RTS	I	Request To Send
8	/CTS	O	Clear To Send
9	/RI	O	Ring Indication

The GSM/GPRS terminal is designed for use as DCE. Based on the conventions for DCE-DTE connection, it communicates with the user application (DTE) using the following signals:

Pin TxD @ application sends data to TxD of GSM/GPRS terminal

Pin RxD @ application receives data from RxD of GSM/GPRS terminal

Basic AT Command List:

The commands are listed in the document SIM767X Series_AT Command Manual

Key Features	Specification
Transmission	Data, SMS, Fax
Power Supply	Single Supply Voltage 7.5-24Vdc
Current Consumption	Standby 43mA Working 60-130mA Max Current 2A
Data Rates	LTE CAT1: Max 5Mbps(UL) Max 10Mbps(DL) EDGE: Max. 236.8 Kbps (DL), Max 118 Kbps (UL) GPRS: Max. 85.6 Kbps (DL), Max. 42.8 Kbps (UL) GPRS coding scheme: CS 1-4 EDGE coding scheme: MCS 1-9
SMS Specification	MO, MT, CB SMS Cell broadcast Text and PDU mode
Transmit Power	Class4 (2W) for 900MHz Class1 (1W) for 1900MHz
Supported Simcard	1.8 - 3V
External Antenna	SMA connector
Serial Interface	USB / RS232 for AT commands and data
Reset	Via AT Command
Temperature Range	-30 to +80 degC
Dimensions	85 x 54 x 25mm
Weight	83grams

Power Supply:

Note the PSU should be a single voltage source of providing peak current of up to 2A during transmission. The terminal can be turned on by connecting power. The terminal power supply circuit automatically generates a low pulse signal not less than 100ms in order to wake up the GSM engine. Each time the terminal is shut down, data will be written from the volatile memory to the flash memory. The guaranteed maximum number of write cycles is limited to 100K.



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