

Key Features

- Quad band GPRS
- GPRS class 10
- AT command driven
- Embedded TCP/IP stack
- Python script interpreter
- 5 - 42V DC supply
- RoHS compliant
- Extended temperature range
- Extended RF sensitivity

Additional Features

- » SIM phonebook
- » Jamming detection and report
- » Embedded TCP / IP stack, including TCP, ICP, UDP, SMTP and FTP protocols
- » TMFS (Telit Firmware Management Services)
Over the air update
- » 3x LED for status indication

GPS

- » GPS power consumption:
 - 15mA in low profile tracking mode
 - 30µA in sleep mode
- » High sensitivity for indoor reception, up to -163dBm (with active antenna)
- » Accuracy < 3m
- » Extremely fast TTFF's at low signal levels
- » Hot start autonomous < 3s
- » Warm start autonomous < 40s
- » Cold start autonomous < 45s
- » Supports multi channel GPS, L1 1575.42MHz
- » GPS NMEA 0183 output format
- » Dedicated GPS AT commands
- » Low power consumption

General Description

The ZOOM-G-GPRS is supplied as standard with a quad band GSM module for worldwide global coverage. The 'ZOOM-G-GPRS' has been designed for simple integration into both new and existing designs and is intended to be a cost effective, fully tested alternative to a standalone bare module.

The ZOOM-G-GPRS can be integrated into your application to enable cellular communication quickly, with little effort and no formal testing required on your part until you go to production.

The ZOOM-G-GPRS provides a full set of interfaces through the 2 x 20 way IDE connectors. These headers are split into 2 categories, a function header and a communication header.

The function header includes access to the modules onboard GPIO connections and LED indicators and includes protection against over voltage.

The communication header provides access to all of the serial channels available on the module including USB / standard RS232 interface and the debug RS232 port. Both headers provide power connections and on/off controls.

Rev 1.6

ZOOM-G-GPRS

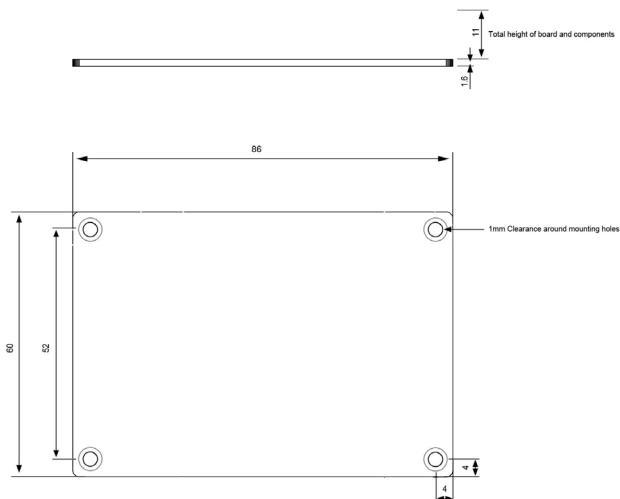
GPRS Socket Modem with GPS

Specifications - Electrical

Operating temperature range:	-30 to 75°C
Storage temperature range:	-40 to 85°C
Antenna impedance:	50 ohm
Operating frequencies:	2G: 850, 900, 1800, 1900MHz
Power:	5 - 42V
Output power:	Class 4 (2W) @ 850, 900MHz Class 1 (1W) @ 1800, 1900MHz
Supply voltage range:	5 - 42V DC
Sensitivity:	107dBm (typ.) @ 850, 900MHz 106 dBm (typ.) @ 1800, 1900MHz

Specifications - Mechanical

Dimensions:	85mm x 60mm x 11mm
Weight:	54g
Antenna connector:	SMA female connector



Interfaces:

- » Sim card holder: 1.8V / 3V interface
- » 2 x IDE 20-way connectors

GPRS Data:

- » GPRS class 10
- » Mobile station class B
- » Coding scheme 1 to 4

SMS:

- » Point-to-point mobile originated and mobile terminated SMS
- » Concentrated SMS supported
- » SMS cell broadcast
- » Text and PDU mode circuit switched data (CSD) transmission
- » Asynchronous transparent CSD
- » Asynchronous non-transparent CSD up to 9.6kbps
- » V.110

Fax:

- » Group 3, class 1

GSM Supplementary:

- » Call forwarding
- » Call barring
- » Call waiting and call hold
- » Advice of charge
- » Calling line identification presentation (CLIP)
- » Calling line identification restriction (CLIR)
- » Unstructured supplementary services mobile data (USSD)

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