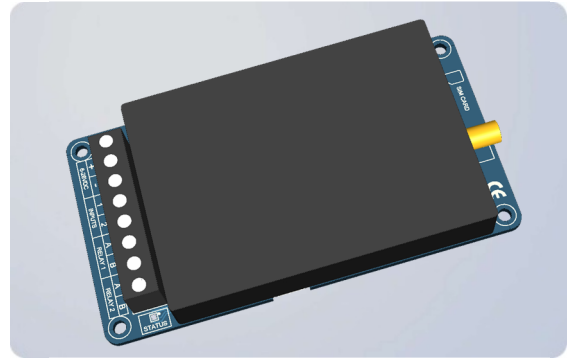


GSM2C2R

Compact Quad-band GSM Monitoring Module



GSM2C2R is a compact low power GSM monitoring and control module for harsh environments. Based on the latest 2G technology the module provides both Machine 2 Machine (M2M) and Machine 2 Human (M2H) support using the Small Message System (SMS) in a compact 95mm x 51mm x 12mm profile.

GSM2C2R features two [2] voltage free contact (Normally Open or Normally Closed) or external temperature probes and two [2] 1A @ 30VDC Solid State Relay outputs. The low profile and small footprint of the module makes sure that it can be easily deployed into size-constrained applications, and provides an industry standard SMA antenna interface for reliable connectivity.

The compact form factor, easy four [4] hole fixing method, low power consumption and extended temperature make the GSM2C2R a best choice for M2M and M2H monitoring applications.



Key Benefits

- ✓ Compact quad-band GSM solution for worldwide use.
- ✓ Full control and monitoring via SMS messaging, with up to three [3] M2M and M2H SMS destinations each.
- ✓ Two [2] voltage free contact or temperature sensor inputs, with NC/NO open/close or temperature threshold SMS alerts.
- ✓ Two [2] 1A @ 30VDC Solid State Relay outputs.
- ✓ Wide input supply of 6-28VDC allows operation in battery, solar and mains powered applications.
- ✓ Ultra-low power consumption, idles at 10mA @ 12VDC input supply.
- ✓ Extended temperature range -20°C ~ +85°C



Quad-band



External SMA Antenna



Extended temperature Range: -20°C ~ +85°C



Compact solution



M2H SMS interface



M2M SMS interface



Dual contacts or temp sensors



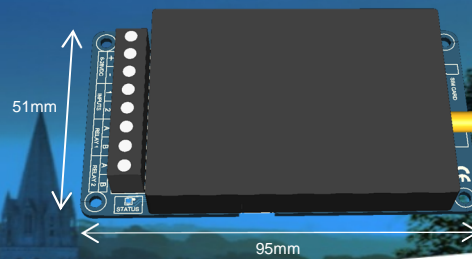
Dual 1A @ 30V SSR



Bluetooth 3.0 option

GSM2C2R

Quad-band GSM Monitoring Module



GSM features

Quad-band modem:

850/900/1800/1900MHz

SMS:

M2M (fixed length)

M2H (human readable)

Interfaces

SIM Card:

Micro SIM (3.0/1.8V)

Push-push card

Inputs:

Voltage Free Contact x 2

Normally Open or Closed

One-wire temperature sensor

(0-125C)

Relay Outputs:

Solid State Relay x 2

Normally Open

1A @ 30VDC capable

Antenna:

50ohm SMA socket

USB:

USB2.0 full speed

Connections:

8way screw-terminal block

SMA antenna socket

USB micro B socket

Indication

R.G.B Status LED:

GREEN flash @ 10S – Okay

RED flash @ 0.5S – Connecting

Long GREEN flash – SMS Okay

Long RED flash – SMS Error

SMS Reporting

M2M:

Unique Identification Number

Supply voltage

GSM signal level

Module internal temperature

Input contact status

Input temperature status

Relay output status

Supply alarm threshold

Firmware version

M2H:

Unique Identification Number

Location description

Supply voltage

GSM signal level

Module internal temperature

Input contact status

Input temperature status

Relay output status

Firmware version

SMS Control

Set Unique Identification Number

Set Location text

Set input type (contact/temp)

Set input timeout / thresholds

Set M2M and M2H SMS numbers

Set supply low and periodic timer

Reset module

Set new PIN

Control relay on/off and timed on

Electrical & Sensitivity

Supply Voltage:

6.0V ~ 28VDC

Power Consumption:

10mA @ 12VDC Idle

50mA @ 12VDC Peak

Output Power:

Class 4 (2W @ 850/900MHz)

Class 1 (1W @ 1800/1900MHz)

Sensitivity:

GSM850: -109dBm Typ.

EGSM900: -109dBm Typ.

DCS1800: -109dBm Typ.

PCS1900: -109dBm Typ.

General Features

Periodic SMS capability (heartbeat)

Three [3] M2M SMS destinations

Three [3] M2H SMS destinations

Bluetooth 3.0 (option)

USB Firmware update

Temperature range: -20°C ~ +85°C

Dimensions: 90mm x 51mm x 12mm

Weight: 30g approx.

Approvals

RoHS Compliant

CE (Europe)