

GSM Commander Product information

Total Control - Peace of mind



GSM Commander Background Information

The GSM Commander range of modular products are used in remote monitoring and/or control applications, allowing users to be notified of remote events, and enabling the users to control remote equipment from a cellphone. The GSM Commander works with any GSM cellular network (SIM card provided by user).



GSM Commander "GC" Series



GSM Commander "GB" Series



GSM Commander Expansion Unit

GSM Commander Base Units

All base units feature an internal Cellular Engine that allows it to connect to a cellular network so that it can send/receive SMS messages or Voice Calls. A SIM card is fitted by the user. The device is configured by the user to perform a variety of tasks.

Note: In industrial applications, it is advised that the GSM Commander be installed into its own metal housing and be powered from a separate power supply. (As opposed to sharing one with other equipment).

➤ “GB” Series

- GB0101 - Baby Commander (basic 1 input / 1 output)

➤ “GC” Series

- GC0321 - Generic GSM Commander with 32 Statements
 - GC0641 - Generic GSM Commander with 64 Statements
 - GC1281 - Generic GSM Commander with 128 Statements
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Expansion units

(Compatible with “GC” Series only)

Expansion units are connected to GC series base units to expand the number of inputs and outputs that are available. Multiple expansion units can be connected to a base unit, to provide for up to 32 inputs and 32 outputs. (*Different base unit models cater for different maximum numbers of expanded Input/outputs – See the feature matrix*)

Current Expansion units include:

- GX0505 : 5 x input and 5 x output Expansion

Expansion units come complete in a cardboard box, with an interfacing ribbon cable, ready to be connected to a base unit

Accessories

Temperature Probes

- GT002 : Temperature Interface
Allows 2 x Temperature probes to be connected to a “GC” series Base Unit.
- GT001-1 : 2m Temperature probe for “GC” units (requires GT002) **0°C - 100°C only**
- GT001-2 : 4m Temperature probe for “GC” units (requires GT002) **0°C - 100°C only**

Antennas

- GA001 : Standard 0dBi dual-band antenna
- GA002 : 3dBi magnetic base antenna (for areas with low signal strength)
- GA004 : 5dBi Outdoor antenna

Power Supplies & Batteries

- PSU1205 : Standard linear 12v 500mA
- PSU1410 : Switching 14v 1000mA
- BATT1.2AH : 12v, sealed lead-acid battery 1.2AH capacity

Feature Matrix

Model	Onboard Inputs	Onboard Outputs	Expandable Inputs/Outputs	Max Number of Statements	Max number of Phone Numbers	Max number of Messages	Max Length of Messages	Setup Memory	0-100deg Temp probes supported	0-10v Analog Inputs	Battery / Power Monitor	Configuration Via USB	DTMF Decoder	SIM Card Slots
GB0101	1	1	NONE	N/A	16	1	16	N/A	0	0	YES	NO	NO	Single
GC0321	2	2	12/12	32	250	64	128	2kb	2	1	YES	YES	NO	Single
GC0641	2	2	22/22	64	512	128	128	4kb	2	1	YES	YES	YES	Single
GC1281	2	2	32/32	128	512	128	128	8kb	2	1	YES	YES	YES	Dual

Matrix Feature Descriptions

Model	The code used to define between the various units functionality and capabilities
Onboard Inputs	The number of inputs provided on the base unit itself
Onboard Outputs	The number of outputs provided on the base unit itself
Expandable Inputs/Outputs	The maximum total number of Inputs/Outputs that can be expanded to by fitting expansion units
Max Number of Statements	A measure of the amount of complexity that can be programmed into the unit. Each statement is of the form IF <ABC happens> THEN <do something>, such as IF Input 1 goes Active, THEN send "Generator Tripped" to "0831231234"
Max Number of Phone Numbers	The maximum total number of phone numbers that can be programmed into the unit
Max Number of Messages	The maximum total number of messages that can be programmed into the unit
Max Number of Statements	The maximum total number of behaviour statements that can be programmed into the unit
Setup Memory	The amount of memory that is available for setup. - This is a measure of how much information the setup can contain. Each 1kb of memory can store up to 146 Telephone numbers, or 56 Messages(16 characters each)
0-100deg Temp Probes supported	The number of temperature probes the base unit can accept
0-10v Analog Inputs	The number of analog Inputs available
Battery / Power Monitor	The ability to detect power failures and monitor a connected battery.
Configuration Via USB	The unit is configured via software from a PC.
DTMF Decoder	if YES, the unit is able to recognize (and respond to) key presses on a remote phone during a voice call.
SIM Card Slots	If Single, the unit has only a single SIMcard slot. If the SIMcard in that slot becomes faulty or the associated network goes down, the unit loses communication ability. If Dual, the unit can switch over to a secondary SIMcard if it detects problems on the primary SIMcard, thus greatly enhancing reliability.

Base Unit Technical Specifications

Digital Inputs:	Opto-isolated. Inputs draw 10-30mA, depending on the voltage. Can accept DC signals of any type, including: <ul style="list-style-type: none">- Dry Contacts- Open Collector (NPN)- Open Collector (PNP)- DC Voltage (5-18V)
Digital Outputs:	SPDT Relays Rating: 8Amp DC (10-48V)) OR 4Amp AC (110-400V) (<i>non inductive loads</i>)
Current Consumption:	~60mA at Idle (no inputs or outputs active)
Power Supply:	10-24V DC via DC Jack or Screw Terminal It is advised that the base unit be powered from its own dedicated supply in industrial applications.
Operating Temperature:	-10 to +60 °C
Storage Temperature:	-20 to +85 °C
Dimensions:	146,2 x 86,2 x 27mm

Base units can be ordered separately (-OEM version), or in retail kit form.(-BOX version)

In addition to the relative base unit, the retail kit contains:

- a basic antenna (GA001)
- power supply (PSU1205)
- USB cable and Software CD (for 'GC' series only)

Expansion Unit Technical Specifications

Digital Inputs:	Opto-isolated. Inputs draw 10-30mA, depending on the voltage. Can accept DC signals of any type, including: <ul style="list-style-type: none">- Dry Contacts- Open Collector (NPN)- Open Collector (PNP)- DC Voltage (5-18V)
Digital Outputs:	SPDT Relays Rating: 8Amp DC / 4Amp AC (non inductive loads)
Current Consumption:	~15mA for each active input, 40mA for each active output
Power Supply:	12v DC via Screw Terminal
Operating Temperature:	-10 to +60deg C
Storage Temperature:	-20 to +85deg C
Dimensions:	147 x 103 x 28mm

Expansion units come complete in a cardboard box, with an interfacing ribbon cable, ready to be connected to a base unit
