

UGSIM-M USER MANUAL

VER 1.1



Introduction:

UGSIM-M is a GSM/GPRS module designed by UGE electronics and based on SIMCOM SIM800 Quad-band GSM/GPRS engine, featuring a compact size, solid protection, and compatibility with 5V and 3.3V levels.

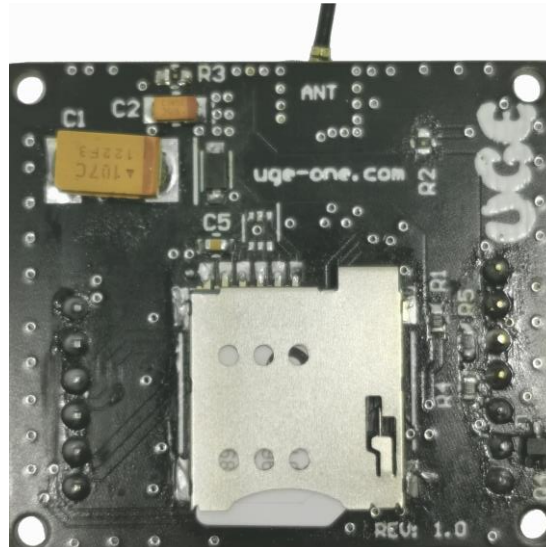
Features:

- Quad-band 850/900/1800/1900MHz
- Controlled by AT Command
- Compatibility with TTL and 3.3 voltage levels
- Protection against ESD and Battery overvoltage
- Supports GSM (SMS and dialing)
- Supports GPRS

Electrical Characteristics:

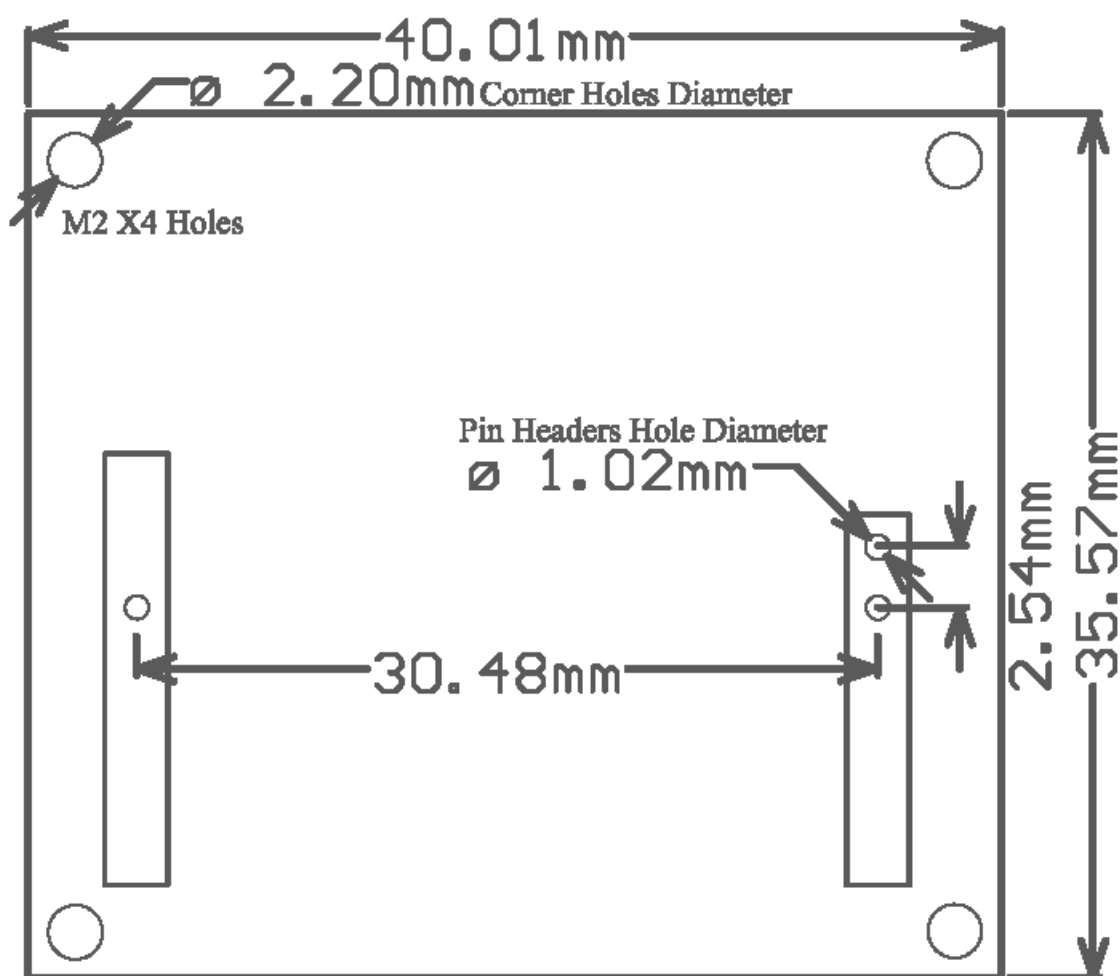
Parameters	Min	Typical	Max	Unit
Input Voltage (VCC)	3.4	4	4.4	VDC
Peak Current	-	-	2	A
Average Current	-	-	500	mA

Layout Description



Name	Description	
PWK	Power key pin, this pin is used to power up/power down the module, for power up/power down you need the send high pulse for 1.2 s, the pin is 5V and 3.3V tolerant.	
VCC	Power pin for the module, the power supply voltage range is from 3.4V to 4.4V. Power supply should provide enough current so that the module can work normally; the peak current is nearly 2A.	
TX	UART transmit pin, note that this pin work on 3.3V logic level (i.e. sends signals on 3.3V levels), but can work reliably with 5V level receivers without any conversion as 3.3V is read high in 5V logic level.	
RX3.3	UART 3.3V receive pin, use this pin only with devices that sends 3.3V logic level signals.	
RX5	UART 5V receive pin, use this pin only with devices that send 5V logic level signals.	
RST	Reset input (active High) compatible with 3.3V and 5V logic levels	
GND	Circuit ground	
DTR	UART data terminal ready	
RI	Ring indicator	
M+	Mic differential audio input	
M-	Mic differential audio input	
S+	Speaker differential audio output	
S-	Speaker differential audio output	
ANT	Antenna interface, this is a u.fl connector	
STATUS	The STATUS LED indicates the operating status of module. The pin output high when module power on, output is low when module powered off	
NET	The NET led is a network status indicator and behaves as follows:	
	NET led	SIM800 behavior
	Off	SIM800 is not running
	64ms On/ 800ms Off	SIM800 not registered the network
	64ms On/ 3000ms Off	SIM800 registered to the network
	64ms On/ 300ms Off	GPRS communication is established

Mechanical Design



External references:

- [SIM800 Hardware Design V1.10](#)
- [SIM800 Series AT Command Manual V1.10](#)