

GSM/GPRS MODEM FOR M2M APPLICATIONS



The 2G/GPRS modem is an expansion board for the TSmart family to easily develop M2M applications. It offers quad band connectivity at 850, 900, 1800 & 1900 MHz. Connect to networks GSM and GPRS with EDGE (MCS-9).

The main features of the GPRS modem are its low-power consumption, small size and full Internet connectivity with native support of FTP and TCP/UDP protocols. The modem is also able of sending and receiving emails and SMS messages.

Software libraries provided by TST offer a simple way to use the GPRS modem, having the developer also the option to communicate directly with the modem via AT commands over a serial port.

KEY FEATURES

Simple development of M2M solutions

Connect to networks GSM and GPRS with EDGE (MCS-9)

Full Internet connectivity

Simple use with TST driver

ELECTRICAL	
Input voltage	3.7 - 4.5 VDC
Internal voltage	4.2 VDC
TX Current	1.6 A peak
Current stand-by	1.91 mA (able to receive calls)
Current in sleep	400uA

MECHANICAL	
Dimensions	52 x 43 mm
Connectors	22 male pins for TSmoTe/TSgaTe connections
	22 pin slot for other expansion modules
	UFL connector for antenna
	aux connector microphone, aux connector speaker

RADIO PARAMETERS	
Frequency bands	850/900/1800/1900 MHz
Supported standards	GSM, GPRS EDGE
Output power	2W for 850/900 MHz, 1W for 1800/1900 Mhz
GPRS data rate	237 kbps download, 237 kbps upload

EMBEDDED SOFTWARE	
Supported service	FTP, TCP, HTTP, UDP, email, SMS
Communication	AT commands
	TST software library

ENVIRONMENTAL	
Operation temperature	-40°C / +85°C
Storage temperature	-40°C / +85°C
Certifications	CE, RoHS R&TTE, GCF-CC, FCC, PTCRB, China RTE,
	ICASA, Anatel, ATEX