MMCModem[™] GPRS

Embedded Wireless Modem



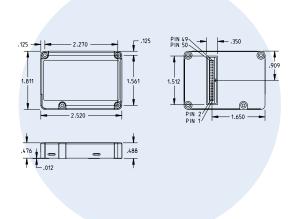
Benefits

- Compact, rugged industrial chassis design
- Board-to-board or board-to-cable
 mounting
- Quick time-to-market
- Carrier approved

The MMCModem[™] GPRS wireless modem offers standards-based quad-band GPRS Class 10 performance. Packaged in a compact, rugged industrial chassis this quick-to-market communications device allows developers to add wireless communication to products with a minimum of development time and expense. The MMCModem GPRS wireless modem is based on industry-standard open interfaces and can be board-to-board or board-to-cable mounted.

Features

- GPRS Class 10
- Quad-band 850/900/1800/1900 MHz
- Packet data up to 85K bps
- Embedded TCP/IP stack
- Circuit-switched data (GSM) up to 14.4K bps transparent and non-transparent
- Short Message Services (SMS)
- Supports DTMF transmission
- Allows for emergency calls, Full Rate, Enhanced Full Rate and Half Rate (FR/EFR/HR)
- Compatible with supplementary services
- Advanced management features include phone book management, fixed dialing number, real time clock and alarm management
- MMCX antenna connector and SIM socket
- Board-to-board or board-to-cable mounting
- Serial interface supports DTE speeds to 115.2K bps
- AT command compatible
- MNP 2 error correction, V.42bis compression
- Two-year warranty







Highlights

- Applications. The MMCModem GPRS wireless modem is targeted at applications that periodically need to send or receive data over a wireless network. It is an ideal solution for:
 - Appliances • ATM terminals
 - Automotive
 - Data collection

 Industrial and medical remote monitoring systems

Gas pumps

- Remote diagnostics • Remote metering
- Security systems
- Vending/gaming machines
- Other devices requiring wireless connectivity
- Reduces Development Time. The MMCModem GPRS wireless modem can make your existing and next generation device, machine, or system, communication-ready without requiring significant hardware changes to its design. It actually provides faster time-to-market because it relieves the burden and expense of obtaining PTCRB and RF approvals.
- Internet-enabled. The MMCModem GPRS wireless modem includes an embedded TCP/IP protocol stack to bring Internet connectivity to any device. Using the Internet protocols and the wireless connection to an IP network, it sends and receives data over the Internet.

MMCModem Pin-Out. The MMCModem GPRS wireless modem interfaces easily with existing products through a standard

serial communication	Pin Connector			
channel. The serial	T III Connect			1
DTE channel is capable	GND	1	2	GND
*	+5V	3	4	+5V
of transfer speeds to	CT109/DCD	5	6	GND
115.2K bps and can be	GP I 04	7	8	SPK2N
interfaced directly to a	CT125/RI	9	10	SPK2P
5	Flashing LED	11	12	SPK1P
UART or microcontroller.	CT106/CTS	13	14	SPK1N
The complete on-board	ON/~OFF AUXV0	15 17	16 18	MIC2P MIC2N
1	~RST	19	20	MIC1P
RF transceiver interfaces	GND	21	20	MIC1N
with an antenna for direct	BOOT	23	24	GND
connection to wireless SMS,	CT103/TX	25	26	GPIO0
,	CT107/DSR	27	28	CT104/RX
circuit-switched dial-up or	CT108-2/DTR	29	30	CT105/RTS
packet data networks.	COL3	31	32	COL4
F	COL1	33	34	COL2
analamara Kit The	ROW4	35	36	COL0
evelopers Kit. The	ROW2	37	38	ROW3
Developer's Kit allows you to	ROW0	39	40	ROW1
plug in the communications	NC	41	42	SPI_EN
	SPI_IO SIMCLK	43 45	44 46	SPI_CLK SIMRST
device and use it for	SINCLK	45	46	SIMKSI

device and use it for SIMVCC testing, programming and SIMDATA 49 evaluation. The kit includes one development board with RS-232 DB-25 connector,

universal power supply, antenna and RS-232 cable.

Specifications

Packet Data Features

GPRS Class 10, PBCCH support Coding Schemes: CS1 to CS4 Embedded TCP/IP stack

Circuit Switched Data/Fax Features

Asynchronous, transparent & non-transparent up to 14.4K bps, MNP 2 & V.42bis

SMS Features

Text & PDU, Point-to-Point, cell broadcast

IP Protocols Supported

DNS Resolve, FTP client, IP, IPCP, LCP, PPP (dial-out), TCP socket, UDP socket, CHAP, PAP

Connectors

50-pin

Antenna: MMCX

SIM: Standard 3V SIM receptacle (5V SIM with external level shifter)

Power Requirements

5VDC; 400mA typical, 1.4A maximum

Physical Description

2.5" w x 1.8" h x 0.48" d; 2.8 oz. (6.4 cm x 4.6 cm x 1.2 cm; 79 g)

Operating Environment

-30° to +70° C

Certifications

CE Mark

EMC: FCC Part 2, 15, 22, 24, EN 55022, EN 55024 Safety: cUL, EN 60950, UL 60950 Network: PTCRB

Ordering Information

Product MTMMC-G-F4*

Description GSM/GPRS Modem GSM/GPRS Modem

Region Global Global

MTMMC-G-F4-ED[†] * Quad-band Modem, 850/1900 MHz default + Ouad-band Modem. 900/1800 MHz default

Made in Mounds View, MN, U.S.A.

Features and specifications are subject to change without notice.

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