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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MMCModem[™] GPRS

Embedded Cellular Modem



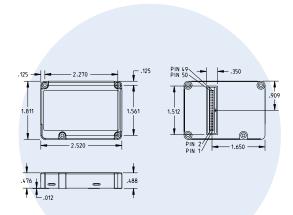
Benefits

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

The MMCModem™ GPRS cellular 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 cellular 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 cellular 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
- Gas pumps
- Industrial and medical remote monitoring systems
- Remote diagnostics
- Remote metering
- Security systems
- Vending/gaming machines
- Other devices requiring wireless connectivity

Reduces Development Time. The MMCModem GPRS cellular 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 cellular 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 cellular modem interfaces easily with existing products through a standard serial communication channel.

The serial DTE channel is capable of transfer speeds to 115.2K bps and can be interfaced directly to a UART or microcontroller. The complete on-board RF transceiver interfaces with an antenna for direct connection to wireless SMS, circuit-switched dial-up or packet data networks.

Developers Kit. The Developer's Kit allows you to plug in the communications device and use it for testing, programming and evaluation. The kit includes one development board with

GND	1	2	GND
+5V	3	4	+5V
CT109/DCD	5	6	GND
GP I 04	7	8	SPK2N
CT125/RI	9	10	SPK2P
Flashing LED	11	12	SPK1P
CT106/CTS	13	14	SPK1N
ON/~OFF	15	16	MIC2P
AUXV0	17	18	MIC2N
~RST	19	20	MIC1P
GND	21	22	MIC1N
BOOT	23	24	GND
CT103/TX	25	26	GPIO0
CT107/DSR	27	28	CT104/RX
CT108-2/DTR	29	30	CT105/RTS
COL3	31	32	COL4
COL1	33	34	COL2
ROW4	35	36	COL0
ROW2	37	38	ROW3
ROW0	39	40	ROW1
NC	41	42	SPI_EN
SPI_IO	43	44	SPI_CLK
SIMCLK	45	46	SIMRST
SIMVCC	47	48	SIMPRES
SIMDATA	49	50	GPO0
			,

Pin Connector

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

ProductDescriptionRegionMTMMC-G-F4*GSM/GPRS ModemGlobalMTMMC-G-F4-ED†GSM/GPRS ModemGlobal

* Quad-band Modem, 850/1900 MHz default

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

Features and specifications are subject to change without notice.

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[†] Quad-band Modem, 900/1800 MHz default