

GoEmbedded E1000

Embedded Cellular Modem

for GSM/GPRS/EDGE Networks

Robustel GoEmbedded E1000 is an embedded, ready-to-integrate communications module offering state-of-the-art GSM/GPRS (EDGE optional) connectivity for machine to machine (M2M) applications.

This quick-to-market communications module allows developers to add wireless communication to products with a minimum of development time and expense.

Key Features

- GSM/GPRS/EDGE quad-band 850/900/1800/1900 MHz.
- Control via AT commands (Hayes 3GPP TS 27.007 and 27.005).
- PPP, GPRS, SMS, CSD access via AT commands.
- Internet Services TCP server/client, UDP, HTTP, FTP, SMTP, POP3 access via AT commands.
- TTL interfaces for communications, both can be controlled via AT commands.
- 50-PIN socket with 4 mounting holes, compact size and easy to integrate.
- SSL optional for specified model.
- Built-in **Java™** optional for specified model.



Applications

POS, ATM, Kiosks, Vending Machines
Healthcare
Metering

Regulatory and Type Approvals

Approval and Detective: CE, R&TTE, FCC, PTCRB, RoHS, WEEE

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Specifications

Cellular Interface

- Standards: GSM/GPRS/EDGE
- GPRS: max. 86 kbps (DL & UL), class 10
- EDGE: max. 236.8 kbps (DL & UL), class 12
- Frequency: 850/900/1800/1900 MHz for GSM/GPRS/EDGE,
- CSD: Up to 14.4 kbps
- Output Power: 1 watt GSM1800/1900, 2 watts EGSM 900/GSM 850
- Antenna Interface: One Hirose U.FL antenna connector
- SIM Card Holder: Does not include

Serial Interface

- Number of Ports: 2 x UART (TTL level)
- Parameters: 8N1, 300bps to 230400bps, autobauding
- Flow Control: RTS/CTS, XON/XOFF or none
- UART0: Tx, Rx, RTS, CTS, DTR, DSR, DCD, Ring
- UART1: Tx, Rx, RTS, CTS

Power Supply

- Input Voltage: 3.3 to 4.5 VDC
- Power Consumption: 2.1 mA (Sleep), 200 mA (GSM/CSD), 180 mA (GPRS Class 10), 330 mA (GPRS Class 12), average values for average GSM field strength

Physical Characteristics

- Weight: Approx. 20g
- Dimension (L x W x H): 51 x 35 x 10.5 mm (E1000-GPRS)
51 x 37.5 x 10.5 mm (E1000-EDGE, E1000-GPRSJ)
- Installation: 50-PIN socket, 4 mounting holes

Environmental Limits

- Operating Temperature: Refer to "Selection and Ordering Data"
- Humidity: 5 to 95% RH
- Storage Temperature: -40 to 85°C

Warranty

- Warranty Period: 1 Year

Selection and Ordering Data

Model No.	Description
E1000-GPRS	2 ports UART (TTL level), GPRS Class 10, -40 to 85°C
E1000-EDGE	2 ports UART (TTL level), GPRS/EDGE Class 12, SSL, -40 to 75°C
E1000-GPRSJ	2 ports UART (TTL level), GPRS Class 12, SSL/Java, -40 to 75°C

Packing List

Robustel E1000 Modem
Terminal Block for Power Connector
Document and Software CD

SIM_CLK	1	o		o	50	NC
SIM_VCC	2	o		o	49	NC
SIM_IO	3	o		o	48	NC
SIM_RST	4	o		o	47	NC
NC	5	o		o	46	NC
SIM_GND	6	o		o	45	NC
NC	7	o		o	44	NC
GND	8	o		o	43	NC
NC	9	o		o	42	GND
NC	10	o		o	41	ON
NC	11	o		o	40	EMERG_RST
NC	12	o	E1000	o	39	DCD0
LPG	13	o	Bottom	o	38	NC
RXD1	14	o	View	o	37	CTS0
RXD0	15	o		o	36	NC
TXD1	16	o		o	35	DTR0
TXD0	17	o		o	34	RTS0
VDD_RTC	18	o		o	33	DSR0
NC	19	o		o	32	RING0
NC	20	o		o	31	VDD_IO
GND	21	o		o	30	VBATT+
GND	22	o		o	29	VBATT+
GND	23	o		o	28	VBATT+
GND	24	o		o	27	VBATT+
GND	25	o		o	26	VBATT+

Optional Accessories (can be purchased separately)

- Double Row Straight Female Header
- U.FL connector RF cable with SMA female connector
- SMA male Rubber Antenna
- 4 x Spacers M2, 4 x Screws M2, 4 x Hexagon Nuts M2
- Push to Push SIM Card Holder
- DB9 Female Socket

Contact:

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