

GoEmbedded E1000-HSDPA

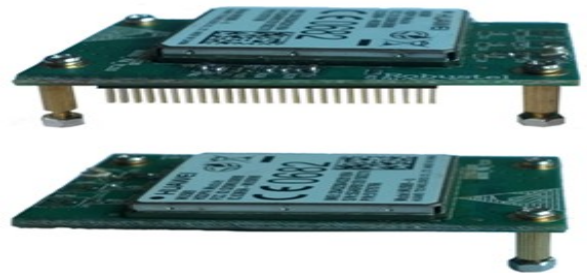
for GSM/GPRS/EDGE/UMTS/HSDPA Networks

Robustel GoEmbedded E1000-HSDPA is an embedded, ready-to-integrate communications module offering state-of-the-art GSM/GPRS/EDGE/UMTS/HSDPA 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.
- UMTS/HSDPA quad-band 900/2100 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 access via AT commands.
- TTL/USB interfaces for communications, both can be controlled via AT commands.
- 50-PIN socket with 3 mounting holes, compact size and easy to integrate.



Applications POS, ATM, Kiosks, Vending Machines Healthcare Metering **Regulatory and Type Approvals** Approval and Detective: CE, R&TTE, RoHS

GoEmbedded E1000-HSDPA

Specifications

Cellular Interface

- Standards: GSM/GPRS/EDGE/UMTS/HSDPA
- HSDPA: max. 3.6 Mbps/384 kbps (DL/UL)
- Frequency: 850/900/1800/1900 MHz for GSM/GPRS/EDGE, 900/2100 MHz for UMTS/HSDPA
- 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: 1 x UART (TTL level)
- Parameters: 8N1, 600bps to 230400bps, 115200bps by default
- Flow Control: RTS/CTS, XON/XOFF or none
- UART0: Tx, Rx, RTS, CTS, DTR, DSR, DCD, Ring

USB Interface

- Number of Ports: 1 x USB 2.0 (Full Speed 12Mbit/s)

Power Supply

- Input Voltage: 3.3 to 4.2 VDC (typical 3.8V)
- Power Consumption: 3 mA (Sleep), 340 mA (Speech), 360 mA (HSDPA), 550 mA (GPRS)

Physical Characteristics

- Weight: Approx. 20g
- Dimension (L x W x H): 51 x 37.5 x 10.5 mm
- Installation: 50-PIN socket, 3 mounting holes

Environmental Limits

- Operating Temperature: -20 to 70°C
- Humidity: 5 to 95% RH
- Storage Temperature: -40 to 85°C

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
USB_D-	9	o		o	42	GND
USB_D+	10	o		o	41	ON
NC	11	o		o	40	EMERG_RST
NC	12	o	E1000-HSDPA	o	39	DCD0
LPG	13	o	Bottom	o	38	NC
NC	14	o	View	o	37	CTS0
RXD0	15	o		o	36	NC
NC	16	o		o	35	DTRO
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+

Selection and Ordering Data

Model No.	Description
E1000-HSDPA	1 port UART (TTL level) and 1 port USB, GPRS/EDGE/UMTS/HSDPA, -20 to 70°C

Optional Accessories (can be purchased separately)

- Double Row Straight Female Header
- U.FL connector RF cable with SMA female connector
- SMA male Rubber Antenna
- 3 x Spacers M2, 3 x Screws M2, 3 x Hexagon Nuts M2
- Push to Push SIM Card Holder
- DB9 Female Socket

Packing List

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



Contact:

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