

Enfora Enabler™ - IIE

GSM/GPRS/EDGE Quad-Band OEM Module

The Enfora Enabler™ IIE is a Fully Certified Quad Band OEM module containing all GSM/GPRS/EDGE functionality required to create wireless products using global GSM/GPRS/EDGE networks.

The Enfora Enabler™ IIE is designed to work as an embedded component in fixed, portable or handheld devices.

The Enfora Enabler™ IIE supports a comprehensive list of features including: Voice, SMS, Circuit Switched Data, GPRS, EGPRS Class 10 Data Integrated TCP/IP Software Stack, UDP (PAD) & Enfora's Event Driven I/O Engine.

Call your Enfora representative today or visit our website below.



www.enfora.com



w/o SIM
Back View



w/ SIM
Back View



EDG0100
Front View

Enabler IIE Characteristics

Dimensions: 46.1mm x 30.2mm x 3.1mm
 RF Connector: Ultra Miniature Coaxial or On-Board Solder Pads
 Main Connector: Molex 0.5mm Slim Stack 2.0mm Mating Height

Radio Performance

Radio Frequency: 850/900/1800/1900
 Sensitivity: -106 dB (GSM)
 Transmit Power: **Class 4** (2W @850/ 900 MHz)
Class 1 (1W @1800/1900 MHz)

EGPRS/GPRS Packet Data

Mode: Class B, Multislot 10
 Protocol: GPRS Rel 97 and 99, SMG 31
 Coding Schemes: CS1-CS4, MCS1 – MCS9
 Packet Channel: PBCCH/PCCCH

GSM Functionality

Voice: FR, EFR, HR & AMR
 CS Data: Asynchronous, Transparent and Non-Transparent up to 14.4 KB
 GSM SMS: Text, PDU, MO/MT Cell broadcast

SIM Access

Remote SIM: 1.8 & 3V SIM
 Optional Integrated SIM Carrier

Part Numbers

EDG0100-00 (60 Pin without SIM Carrier)
 EDG0100-01 (60 Pin with SIM Carrier)

Application Interface

Host Protocols: AT Commands, UDP/API, CMUX
 Internal Protocols: PPP, UDP/API, UDP/PAD CMUX, TCP/PAD
 API Control/Status: AT or UDP
 Physical Interface: Serial 16550
 Peripheral Interface: 8 Programmable I/O
 2 Analog Inputs
 1 DAC
 3 Audio

Environment

Operating: -30°C to 70°C
 Compliant: -20°C to 60°C
 Storage: -40°C to 85°C
 Humidity: Up to 95% non-condensing

Power

DC Voltage: 3.3 Vdc to 4.5Vdc
 Direct Connect to Lithium Ion Battery (3.6Vdc)

GSM Operating Power (Typical)

Enabler IIE @ 3.6V Band	Mode	Avg (mA)	Peak (A)@(dBm)
GSM 850& 900	1TX/1RX Idle	230mA <10mA	1.9 @ 32.5

DCS 1800& PCS 1900	1TX/1RX Idle	175mA <10mA	17 @ 29.0
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For GPRS/EDGE Operating Power see Enabler-IIE Integration Guide EDG0100PB001

Certifications

FCC: (Pending)
 GCF: (Pending)
 PTCRB: (Pending)
 CE Mark (Pending)
 Industry Canada (CSA)

Specifications subject to change without notice