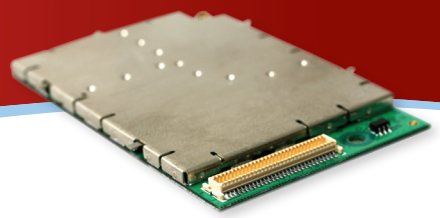
ENFORA ENABLER™ II

GSM/GPRS/EDGE/GPS/A-GPS
DUAL & QUAD-BAND OEM MODULES



PROVEN STABILITY FOR LOCATION, REMOTE MONITORING AND SECURITY APPLICATIONS

The Enabler II family includes dual- and quad-band OEM modules that contain complete GSM/GPRS or EDGE voice and data features. Integrated GPS/A-GPS capabilities ensure accurate and dependable location information. The Enabler II is designed to work as an embedded component in fixed, portable or handheld devices. With consistent connectors and interfaces, you can interchange Enabler II modules and easily address multiple markets and geographies with a single design.

To accelerate deployment, Enfora's Enhanced Wireless Intelligent Device Environment (eWiDE) is an embedded software environment that enables the development of essential capabilities—mobile connectivity, location awareness and device intelligence. The environment also simplifies the operation and remote management of your assets and, ultimately, ensures greater visibility into essential data that supports decision-making.

QUICK OVERVIEW

- **Supports essential features**
  - Voice
  - SMS
  - Circuit-switched data
  - GPRS
  - EGPRS Class 10 data
  - GPS/A-GPS

- **eWiDE**
  - Optimized data pipe
  - Network router
  - Control and automation
  - Rules engine
  - Application OS

Today, more and more companies are turning to Enfora for wireless M2M solutions. By relying on our technology and expertise, they have more time for their core business. When you need proven stability for location, remote monitoring and security applications, Enfora is ready to help you **enable information anywhere.**

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	ENABLER IIE QUAD-BAND	ENABLER IIG DUAL-BAND	ENABLER IIG QUAD-BAND	ENABLER IIG A-GPS QUAD-BAND
MODEL NUMBER	**EDG0108**	**GSM0116**	**GSM0108**	**MLG0208**
CHARACTERISTICS				
Dimensions	46.1 x 30.2 x 3.1 mm			
RF connector	Ultra-miniature coaxial or on-board solder pads			
Main connector	Molex 0.5 mm Slim Stack (2.0 mm mating height) 60-pin			
RADIO PERFORMANCE				
Frequency (MHz)	850/900/1800/1900	900/1800	850/900/1800/1900	GSM: 850/900/1800/1900; GPS: 1.575
Sensitivity	–106 dB (typical)	–106 dB (typical)	–106 dB (typical)	–106 dB (typical)
Transmit power	Class 4 (2W@850/900 MHz) Class 1 (1W@1800/1900 MHz)	Class 4 (2W@900 MHz) Class 1 (1W@1800 MHz)	Class 4 (2W@850/900 MHz) Class 1 (1W@1800/1900 MHz)	Class 4 (2W@850/900 MHz) Class 1 (1W@1800/1900 MHz)
GPRS PACKET DATA				
Mode	Class B, Multislot 10	Class B, Multislot 10		
Protocol	GPRS Rel 97 & 99, SMG 31	GPRS Rel 97 & 99, SMG 31		
Coding schemes	CS1-CS4, MCS1-MCS9	CS1-CS4		
Packet channel	PBCCH/PCCCH	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			
GPS FUNCTIONALITY	N/A			• Autonomous and "enhanced" autonomous; multi-day ephemeris service • Tracking of up to 14 satellites • Supported protocols: SUPL, NMEA • Time to first fix: 60 sec (typical cold start) 0.5 Hz navigation fixes
SIM ACCESS				
Remote SIM	1.8/3V SIM	3V SIM		
Optional integrated SIM carrier	Yes	Yes		
SOFTWARE				
Host protocols	AT commands, CMUX, PPP	AT commands, UDP API, CMUX, PPP		
Internal protocols	PPP	PPP, UDP API, TCP API, UDP PAD, TCP PAD		
API control/status	AT commands	AT commnads, UDP API, TCP API, AT commands over SMS		
Physical interface	Serial 16550	Serial 16550		
Peripheral interface	8 programmable I/O; 2 analog inputs; 1 DAC; 3 audio			7 programmable I/O; 1programmable O; 2 analog inputs; 1 DAC; 3 audio
ENVIRONMENT				
Operating	–30ºC to 70ºC			
Compliant	–20ºC to 60ºC			
Storage	–40ºC to 85ºC			
Humidity	Up to 95% non-condensing			
POWER				
DC voltage	3.3 to 4.5 Vd	3.3 to 4.5 Vd		3.3 to 4.5 Vd
GSM operating power (typical) @ 3.6v				

Band	Mode	Avg (mA)	Peak (A@dBm)
GSM 850 & 900	1TX/1RX	230	1.9
DCS 1800 & 1900	1TX/1RX	175	1.7
	Deep Sleep	< 5	

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GPS	Acqs	116	
	Track	106	

CERTIFICATIONS				
FCC	Parts 15, 22 & 24	N/A	Parts 15, 22 & 24	Parts 15, 22 & 24
GCF	Version 3.17	Version 3.21.1	Version 3.21.1	Version 3.21.1
PTCRB	Version 3.2.1	N/A	Version 3.7.1	Version 3.7.1
CE Mark	Yes	Yes	Yes	Yes
Industry Canada (CSA)	Yes	Yes	Yes	Yes
RoHS Compliant	Yes	Yes	Yes	Yes
PART NUMBERS				
Without SIM carrier	EDG0108-00	GSM0116-00	GSM0108-00	MLG0208-00
With SIM carrier	EDG0108-01	GSM0116-01	GSM0108-01	MLG0208-01

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