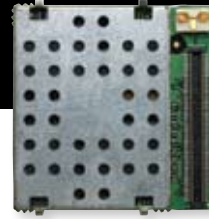


WHEN SMALL SIZE & LOW POWER MATTER



(Actual size)

The Enabler III is a certified quad-band OEM module family that packs complete GSM/GPRS/EDGE functionality into a compact footprint. The embedded software environment enables development of essential capabilities—mobile connectivity, device intelligence and location aware—by utilizing the built-in program rules engine, network router and control and automation capabilities. With power consumption of <2.5mA the Enabler III significantly enhances longer battery life.

To accelerate deployment, use Enfora's Services Gateway to quickly build links from your asset-tracking devices to your existing enterprise applications and services. The Services Gateway provides a complete view of your devices, enabling proactive asset management. It also supports popular enterprise software such as MS SQL Server, MySQL and Oracle.

Key Features

- Utilizes leading-edge GSM/GPRS/EDGE silicon solutions from Texas Instruments
- BGA and multi pin connector forms
- Supports essential features
 - Voice
 - SMS
 - Circuit-switched data
 - Packet Data Class 10
 - TCP/IP software stack
 - UDP (PAD)
 - Utilize Enfora's Services Gateway to quickly link to existing applications & services

**ENABLER IIIIG
DUAL-BAND**



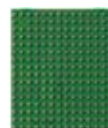
**ENABLER IIIIG
QUAD-BAND**



**ENABLER IIIIG-BGA
QUAD-BAND**



MODEL NUMBER	GSM0306	GSM0308	GSM0408																				
CHARACTERISTICS																							
Dimensions	28 x 27 x 2.5 mm	28 x 27 x 2.5 mm	28 x 24 x 3.0* mm <i>*Nominal Thickness (Includes BGA Ball) Before Reflow</i>																				
Weight	<3.6 g	<4.2 g w/ SIM carrier /<3.6 g w/o SIM carrier	< 3.6 g																				
RF connector	Board-to-board compressor	MCD coaxial or board-to-board compressor																					
Main Connector	Molex 0.4 mm Slim Stack (1.5 mm matting height)	Molex 0.4 mm Slim Stack (1.5 mm mating height)	167 Pin BGA (includes RF)																				
RADIO PERFORMANCE																							
Frequency (MHz)	900/1800	850/900/1800/1900																					
Sensitivity	-106 dBm (typical)	-106 dBm (typical)																					
Transmit power	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	<p>Mode: Class B, Multislot 10 Protocol: GSM/GPRS Rel 97, AMR Rel 98 Coding schemes: CS1-CS4 Packet channel: PBCCH/PCCCH</p>																						
GSM FUNCTIONALITY	<p>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</p>																						
SIM ACCESS																							
Remote SIM	1.8/3V SIM		1.8/3V SIM																				
Optional integrated SIM carrier	Yes		No																				
INTERFACE																							
Host protocols	AT commands, UDP API, CMUX, PPP		AT commands, UDP API, CMUX, PPP																				
Internal protocols	PPP, UDP API, TCP API, UDP and TCP (PAD)		PPP, UDP API, TCP API, UDP and TCP (PAD)																				
API control/status	AT commands, UDP API, TCP API, AT commands over SMS		AT commands, UDP API, TCP API, AT commands over SMS																				
Physical interface	UART, USB		UART, USB																				
Peripheral interface	8 programmable I/O (expandable to 20), 1 analog input, 3 audio (1 digital audio)		UP to 20 programmable I/O (includes keypad), 3 analog input, 4 audio (2 digital audio) plus speaker, 2 LCD, camera, battery charger																				
ENVIRONMENT	<p>Operating: -30°C to 85°C Compliant: -20°C to 60°C Storage: -40°C to 85°C Humidity: Up to 95% non-condensing</p>																						
POWER	<p>DC voltage: 3.3 to 4.5 V</p> <p>GSM operating power (typical)</p> <table border="1"> <thead> <tr> <th>Band</th> <th>Mode</th> <th>Avg (mA)</th> <th>Peak A</th> </tr> </thead> <tbody> <tr> <td>GSM 850/900</td> <td>1TX/1RX</td> <td>250</td> <td>1.6</td> </tr> <tr> <td>GSM1800/1900</td> <td>1TX/1RX</td> <td>215</td> <td>1.3</td> </tr> <tr> <td></td> <td>Idle</td> <td><2.5 DRX 5</td> <td></td> </tr> <tr> <td></td> <td>Sleep</td> <td>600 µA</td> <td></td> </tr> </tbody> </table>			Band	Mode	Avg (mA)	Peak A	GSM 850/900	1TX/1RX	250	1.6	GSM1800/1900	1TX/1RX	215	1.3		Idle	<2.5 DRX 5			Sleep	600 µA	
Band	Mode	Avg (mA)	Peak A																				
GSM 850/900	1TX/1RX	250	1.6																				
GSM1800/1900	1TX/1RX	215	1.3																				
	Idle	<2.5 DRX 5																					
	Sleep	600 µA																					
CERTIFICATIONS																							
FCC	N/A	Parts 15, 22 & 24																					
GCF	Version 3.27.0	Version 3.27.0																					
PTCRB	N/A	Version 3.12.0																					
CE Mark	Yes	Yes																					
Industry Canada	N/A	Yes																					
RoHS Compliant	Yes	Yes																					
PART NUMBERS																							
Without SIM carrier	GSM0306-10 (B2B RF) GSM0306-70 (Micro coaxial)	GSM0308-10 (B2B RF) GSM0308-70 (Micro coaxial)	GSM0408-40																				
With SIM carrier	GSM0306-11 (B2B RF) GSM0306-71 (Micro coaxial)	GSM0308-11 (B2B RF) GSM0308-71 (Micro coaxial)																					

**ENABLER IIIIE
QUAD-BAND****ENABLER IIIIE-BGA
QUAD-BAND**

MODEL NUMBER	EDG0308	EDG0408																				
CHARACTERISTICS																						
Dimensions	34 x 28 x 2.5 mm	33 x 28 x 3.3* mm <i>*Nominal Thickness (Includes BGA Ball) Before Reflow</i>																				
Weight	< 5.6 g w/ SIM carrier/ < 4.7g w/o SIM carrier	< 5.8 g																				
RF connector	Board-to-board compressor or MCD coaxial																					
Main Connector	Molex 0.4 mm Slim Stack (1.5 mm matting height)	223 pin BGA (includes RF)																				
RADIO PERFORMANCE																						
Frequency (MHz)	850/900/1800/1900																					
Sensitivity	-106 dBm (typical)																					
Transmit power	Class 4 (2W@850/900 MHz) Class 1 (1W@1800/1900 MHz)																					
GPRS PACKET DATA																						
Mode	Class B, Multislot 10																					
Protocol	GSM/GPRS/EDGE/AMR Rel 99																					
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	1.8/3V SIM																				
Optional integrated SIM carrier	Yes	No																				
INTERFACE																						
Host protocols	AT commands, CMUX, PPP																					
Internal protocols	PPP																					
API control/status	AT commands																					
Physical interface	Serial 16550, USB 2.0																					
Peripheral interface	8 programmable I/O, 1 analog inputs 3 audio (1 digital audio)																					
ENVIRONMENT																						
Operating	-30°C to 85°C																					
Compliant	-20°C to 60°C																					
Storage	-40°C to 85°C																					
Humidity	Up to 95% non-condensing																					
POWER																						
DC voltage	3.3 to 4.5 V																					
GSM operating power (typical)	<table border="1"> <thead> <tr> <th>Band</th> <th>Mode</th> <th>Avg (mA)</th> <th>Peak A</th> </tr> </thead> <tbody> <tr> <td>GSM 850/900</td> <td>1TX/1RX</td> <td>250</td> <td>1.6</td> </tr> <tr> <td>GSM 1800/1900</td> <td>1TX/1RX</td> <td>215</td> <td>1.3</td> </tr> <tr> <td></td> <td>Idle</td> <td><2.5 DRX 5</td> <td></td> </tr> <tr> <td></td> <td>Sleep</td> <td>600 µA</td> <td></td> </tr> </tbody> </table>		Band	Mode	Avg (mA)	Peak A	GSM 850/900	1TX/1RX	250	1.6	GSM 1800/1900	1TX/1RX	215	1.3		Idle	<2.5 DRX 5			Sleep	600 µA	
Band	Mode	Avg (mA)	Peak A																			
GSM 850/900	1TX/1RX	250	1.6																			
GSM 1800/1900	1TX/1RX	215	1.3																			
	Idle	<2.5 DRX 5																				
	Sleep	600 µA																				
CERTIFICATIONS																						
FCC	Parts 15, 22 & 24	Parts 15, 22 & 24																				
GCF	Version 3.27.0	Version 3.27.0																				
PTCRB	Version 3.12.0	Version 3.12.0																				
CE Mark	Yes	Yes																				
Industry Canada	Yes	Yes																				
RoHS Compliant	Yes	Yes																				
PART NUMBERS																						
Without SIM carrier	EDG0308-10 (B2B RF) EDG0308-70 (Micro coaxial)	EDG0408-40																				
With SIM carrier	EDG0308-11 (B2B RF) EDG0308-71 (Micro coaxial)																					

