

cRIO GXXX 3G MOBILE

The S.E.A. cRIO GXXX 3G modules offer communication of 3rd Generation to the National Instruments™ CompactRIO™ platform



- GPRS
- EDGE
- UMTS
- HSDPA
- HSPA



Module Types:	cRIO GXXX 3G MOBILE HSPA	cRIO GXXX 3G MOBILE CDMA	cRIO GXXX 3G MOBILE HSDPA		
Network provider		SP*	VE*	SB**	NTT**
	worldwide	just USA		just Japan	
Order number	60000037	60000036	60000056	60000050	60000060
Functions					
Netlock		SIM lock		SIM lock	
Communication standards	GPRS/EDGE/UMTS/HSDPA /HSUPA	CDMA IS-856-A/IS-856/IS-2000		GPRS/EDGE/UMTS/HSDPA	
Multi band support:	850/900/1800/1900/2100 MHz	800/1900		850/900/1800/1900/2100 MHz	
GPS data telegram update rate	programmable up to 10 Hz				
PPS puls via backplane	•				
Technical Data					
Operating temperature range [° C]	-30...+60				
Operating voltage [V] (front power connector)	7...30				
Apparent power [VA] Ø at 12 V	3,3				
Peak current at 12V [A max]	0.2 ... 0.3				
Average current	dependent on used communication standard between 85 mA and 250 mA				
Size [mm]	70 x 23 x 87 mm				
Weight [g]	190-200 g				
Software					
Supported LabVIEW versions	8.6 and higher				

*SP=SPRINT SIM lock, VE=Verizon SIM lock available on request / **SB=Softbank, NTT = NTT DoCoMo SIM lock

• = supported; - = not supported
subject to technical changes

cRIO GXXX 3G MOBILE Modules

SEA cRIO modules offer solutions for measurement and supervision applications, which can not be connected to data networks otherwise. The modules allow to control and monitor not accessible and mobile measurement systems remotely by mobile telephone networks

For the exact position determination a multi channel GPS receiver is build in. Distributed systems can be precisely synchronized by absolute timing information and relative PPS sync pulse (pulse per seconds), which is routed to the backplane.

- secure access via modern VPN technology right out of LabVIEW
- built-in firewall protection
- encrypted data transmission

Global System for Mobile Communication

Packet radio networking for data transmission

- data transfer via mobile networks with the following network standards: GPRS/EDGE/UMTS/HSDPA/HSPA
- world wide operation with multi band technology
- SIM card reader for GSM net access with SIM lock mechanism
- receiving and sending SMS messages in GSM mode
- data transfer rates between 384 kbit/s up to 7,6 Mbit/s
- supports GPRS and EDGE multi slot class 10 as well as UMTS /HSDPA data transfer

Setup and programming

The module can be put into any CompactRIO slot and the modules connected with the CompactRIO Ethernet port by a bridge cable. The module is powered by the CompactRIO front panel power connector. There is no LabVIEW FPGA programming required. The module can be programmed and accessed via standard LabVIEW RT VIs. Driver VIs and programming examples for LabVIEW 8.6 and higher are included.



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V2.1

Included Accessories:

- LabVIEW driver and configuration software
- GSM stick antenna
- power cable
- Ethernet Bridge cable

Optional Available Accessories

Hardware:

- various GSM and GPS antennas and further information you can find in our shop:
<http://shop.sea-gmbh.com>

Software:

- **cRIO RST Remote Server Toolkit**
The RST manages the automated and encrypted data transfer to and from the remote CompactRIO system. It automatically copies files from the Compact Flash disc of the CompactRIO system to a remote computer with access to the Internet.

Service

S.E.A. Datentechnik GmbH develops soft- and hardware for the CompactRIO platform and supplies customized control and measurement systems. Also we offer OEM solutions and integration support with CompactRIO products.

CompactRIO system with
SEA cRIO GXXX 3G MOBILE
module, (1.Slot)

For further information please visit:

www.sea-gmbh.com

