

SEA cRIO GXXX MOBILE Modules...



offer access to CompactRIO™ systems for remote control, data acquisition, and position tracking for mobile applications

- cRIO GXXX - Combo module with GSM and GPS wireless function
- cRIO GSM - General Packet Radio Service (GPRS) module
- cRIO GPS - Global Positioning System module
- cRIO GPSIB - GPS module with IRIG-B or sync output



Module type	cRIO GXXX MOBILE	cRIO GSM MOBILE	cRIO GPS MOBILE	cRIO GPSIB MOBILE
Order no.	60000000	60000002	60000001	60000003
GSM				
# of supported GSM bands	4	4	-	-
Frequency [MHz]	850, 900, 1800, 1900		-	-
GPRS class 12 max 86 kbit/s	•	•	-	-
EDGE class 12 max 236.8 kbit/s	•	•	-	-
SIM card reader with lock function	•	•	-	-
GPS				
Data rate time telegram up to	4 Hz	-	4 Hz	4 Hz
Synch output connector (PPS=PulsePerSecond)	•	-	•	•
Programmable pulse output	•	-	•	•
Synch routing to backplane	•	-	•	•
IRIG-B output	/	-	/	•
Technical Data				
Operating temperature range [° C]	-30...+65	-30...+65	-40...+80	-40...+80
Operating voltage [V] (front power connector)	7...30	7...30	/	/
Operation current [A _{rms}] average at 12 V	0,320	0,320	/	/
Operation current at 12 V [A]	2	2	/	/
Operating voltage [V] (backplane)	5	5	5	5
Operating current [mA] mean (backplane)	60	9	60	60
Size [mm]	80 x 23 x 88			
Weight [g]	175	170	165	165
Software				
Software Development Package for LabVIEW 8.6 and higher	•	•	•	•

• = included; / = not available in this series; - = not available

Subject to technical changes.



cRIO MOBILE Modules

from S.E.A. Datentechnik GmbH 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 exact position determination or time information additionally a high sense 50 channel GPS receiver is available. Distributed systems can be precisely time synchronized by absolute timing information or relative PPS sync pulses.

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.

For further information please visit:

www.sea-gmbh.com



Global Positioning System - GPS Module

GPS receiver for position determination

- precise position determination by L1-GPS band receiver, position delivered in NMEA 0183 format
- update rate: up to 4 Hz precise PPS synch signal (front panel and backplane)
- IRIG-B time signal (10 ms)

Global System for Mobile Communication - GSM-Module

Packet radio networking for data transmission

- data transfer via mobile network in GSM, GPRS or EDGE mode
- world wide operation with quad-band technology (850, 900, 1800, 1900 MHz)
- integrated SIM card reader for GSM/GPRS net access with SIM lock mechanism
- receiving and sending SMS messages in GSM mode
- EDGE data transfer provides data rates of up to 236.8 kBit/s
- supports GPRS multi slot class 12 and EDGE class 12 GPRS transfer
- variable up- and downlink rate

IRIG-B Time Signal (optional)

- timing signal with accuracy up to 100 ns
- time output for IRIG-B devices



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