

SEA 9521 BiSS Interface Module



SEA 9521 BiSS Interface Module
offers three independent ports to interface CompactRIO™
with high speed digital position encoders.



Module	SEA 9521
Order no.	60000069
Technical Data	
# BiSS ports	3
BiSS version	BiSS-C
Sensor Connector	M 12
External front panel power supply	7 - 30 V / 1,1 A
Operating temperature range	-40 ... +70 [° C]
Connector supply current per port	5.25 V / 350 mA
Size	87 x 23 x 88 [mm]
Weight	180 [g]
Software	
Supported LabVIEW versions	2011/2012 or higher



About BiSS

The BiSS interface is an open standard for bidirectional communication with digital position encoders. It is capable to transmit position values from absolute digital encoders as well as transmitting or updating sensor information stored in the encoder.

Because of the serial transmission method only four wires are required. The data are transmitted in synchronism with the clock signal from the subsequent electronics. The type of transmitted data (position values, parameters, diagnostics, etc.) are manufacturer dependent and can be selected by mode commands within the software.

For reference see:
<http://www.biss-interface.com>

Subject to technical changes.

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Digital drive systems and feedback loops with position encoders require fast and reliable transfer of digital encoder positions. The SEA 9521 BiSS module offers three parallel BiSS master interfaces for the National Instruments™ CompactRIO™ system.

The built in FPGA allows to communicate with three axes in parallel. The module supports linear and radial encoders. Communication is done via M12 connectors with direct connection to the encoder. The module provides a regulated sensor power supply.

The module offers:

- galvanic isolation
- precise timing information by FPGA technology
- BiSS clock speeds of up to 8 MHz
- synchronization of up to three independent axes within one module
- optional support of SSI protocol
- sensor supply of 5.25 V / 350 mA per axis
- operating temperature range: -40° C to +70° C

LabVIEW Support

The National Instruments CompactRIO™ platform for measurement and control applications bases on FPGA technology. It is a reliable, robust and compact system for reliable real time data acquisition and control solutions. Various digital and analog sensor signals and bus systems are supported.

Combined with the new SEA module this offers an attractive solution for motion applications.

Service

S.E.A. Datentechnik GmbH develops soft- and hardware for the CompactRIO platform and supplies customized control and measurement systems. We also offer OEM solutions and integration support with CompactRIO products and all other National Instruments especially products.



For further information about solutions, accessories, and prices please contact us or visit our homepage:

www.sea-gmbh.com/crio

CompactRIO system with National Instruments IO and CAN module, S.E.A. ARINC429, BiSS, EnDat, LIN, 3G and WLAN modules with Renishaw angle eccentric and Hengstler rotary encoder



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