SEA 9510
EnDat Interface Module

S.E.A. 9510 EnDat Interface modules offer three independent EnDat 2.2 ports to interface CompactRIO™ motion or positioning applications with high speed position encoders.

s·e·a Science & Engineering
Applications Datentechnik
GmbH

Gold Partner

CompactRIO AND CONTROL

Module	SEA 9510		
Order no.	60000006		
Functions			
# EnDat ports	3		
EnDat version	2.2		
Sensor Connector	M 12		
Technical data	Typ.	Min.	Max.
Operating current [mA] front panel connector at 12 V	50	45	500
Operating temperature [° C]	20	-40	70
EnDat connector supply current [mA] per I/F			350
Size [mm]	87 x 23 x 89		
Weight [g]	180		
Software			
Supported LabVIEW versions	2011 and higher		

Subject to technical changes.

cRIO EnDat Module

Digital drive systems and feedback loops with position encoders require fast and reliable transfer of digital encoder positions. The SEA 9510 EnDat Interface Module offers three parallel EnDat 2.2 master interfaces for the National Instruments™ CompactRIO™ system.

The built in FPGA allows the three Endat Masters 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 offers:
- galvanic isolation
- precise timing information by FPGA technology
- EnDat clock speeds of up to 8 MHz
- synchronization of up to three independent axes within one module
- sensor supply of 5.25 V / 350 mA per axis
- operating temperatur range: -40° C to +70° C

About EnDat

The EnDat interface from the Dr. JOHANNES HEIDENHAIN GmbH is a digital, bidirectional interface for encoders. It is capable to transmitposition 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.) can be selected by mode commands within the software.

Further information: www.heidenhain.de

CompactRIO Platform

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 9510 EnDat Interface 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. Also we offer OEM solutions and integration support with CompactRIO 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. LIN and EnDat module with HEIDENHAIN Drehgeber

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