

AdvintRIO™ Snakehead™ Control and Data Acquisition System Specifications



Front Panel Connectors and Arrangements are Customer Specific
Patent Pending

AdvintRIO™ Snakehead™ control and data acquisition systems support common National Instruments CompactRIO platforms including real time controllers and expansion chassis. Additional information is available at ni.com/CompactRIO. For NI CompactDAQ support, see AdvintDAQ™ Mako.™

Software Requirements: The AdvintRIO™ family is powered by LabVIEW. Software requirements are based upon the internal CompactRIO chassis on which the system is based, which varies according to requirement.

Primary communication bus: Ethernet

I/O availability:

- National Instruments Supported C Series Modules (50+)
- Third party C Series Modules (50+)
- Advint custom I/O (to specification)

Common I/O (abbreviated list)

Analog Input +/- 30V Dynamic	24-Bit IEPE	Industrial DIO
Analog Input +/- 10V Dynamic	24-Bit Bridge	5V DIO
Analog Input 400V RMS L-N, 800V RMS L-L	Thermocouple	Multiplexing
Analog Current Input & Output 4-20ma	RTD	CAN, CANopen, LIN
Analog Output: Voltage	Multifunction	Solid State Relays

Connectivity Availability (abbreviated list)

D-Sub	LEMO	Mil 38999	TC Miniature	Turck	more...
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Physical Specifications:

Height	Length	Depth
5 1/8"	12 1/8"	7"

Enclosure material: Machined Aluminum

Weight: 12.5 lbs typical (8 slot chassis, 6 modules, internal electronics / power handling)

Environmental Test Parameters (pending):

Storage Temperature	
IEC 60068-2-1 and 60068-2-2	-40 to 85 C
Operating Temperature	
IEC 60068-2-1 and 60068-2-2	-40 to 70 C
Ingress Protection	IP67

Shock and Vibration Test Parameters (pending):

Operating Mechanical Vibration Random	
IEC 60068-2-64	5G _{RMS} , 10-500 Hz, 3 Axes
Operating Mechanical Vibration Sinusoidal	
IEC 60068-2-6	Frequency 10-500 Hz Amplitude/Acceleration 0.35/1G Sweep rate 1 octave/minute 10 sweeps in each of 3 orthogonal axes
Operating Shock	
IEC 60068-2-27	30G, 4ms, half sine 50G, 4ms, half sine 18 shocks at 6 orientations

Additional Certifications & Specifications: Inquire for details.