

AdvintDAQ™ Mako™ Data Acquisition and Control System Specifications



Front Panel Connectors and Arrangements are Customer Specific
Patent Pending

AdvintDAQ™ systems support common National Instruments CompactDAQ platforms (for CompactRIO support see AdvintRIO™ Snakehead™). AdvintDAQ™ is available as a stand alone system with on board Real Time Operating System or for use with an external Windows based PC. Additional information available at ni.com/CompactDAQ

Software Requirements: Supported by all software environments able to utilize the National Instruments DAQmx driver including LabVIEW, LabWindows CVI, Measurement Studio, and other environments able to call the NI DAQmx DLL.

Primary communication: Ethernet, USB, or stand-alone

I/O availability:

- National Instruments CompactDAQ Supported C Series Modules
- 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.