

DAQRIo

Portable Data Acquisition and Edge Control Module

EDGE/IIoT READY

Smart Edge Gateway with custom analytics and cloud connectivity

Remote dashboard with configuration and management features (ArIO Maestro)

AWS Edge Platform

HARSH ENVIRONMENTS

IP67 rated connectors

Operating (Storage)
-20 to 70 deg.C
(-40 to 85 deg.C)

Ruggedised Watertight Enclosure

CELLULAR/WIFI CONNECTIVITY

Global Band with LTE
Cat-4 4G / 3G / 2G
Communication &
GNSS Positioning

2.4, 5.0 GHz IEEE
802.11 b/g/n/ac
wireless

Next generation IIoT Ready, Edge DAQ & Control module that permits easy data retrieval from multiple sensors in industrial or remote field locations

BENEFITS



- Plug n'Play Architecture with easy connection to most industrial sensors
- Permits remote sensor configuration and safe data acquisition using Mobile device or PC
- Cloud based data logging, visualization and historian support
- Cost effective and scalable architecture to accommodate additional I/O points
- "App" updates managed using over the air update schedule
- IP67 Rated components in Rugged enclosure

APPLICATIONS

- Edge/IIoT Conversion for Legacy systems (Industry 4.0)
- Data passthrough to the cloud using Modbus TCP/IP or RS-232/RS-485
- Renewables, Oil & Gas, Utilities, Power Management, Other industrial
- Installations in harsh area and offshore locations
- Field or workshop locations with adhoc testing requirements



DAQRIO

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Technical Specifications

Power	12VDC
Memory	Configurable, 2TB+ SSD Storage
I/O	
Analog Inputs	4 protected inputs (-12 to 12V; 16bit resolution)
Digital Outputs (optional)	2 outputs (Maximum load voltage of 30VDC)
Analog Output (optional)	2 protected outputs (0 to 4.096V output range)
Digital Input (optional)	Up to 8 protected inputs (3.3 and 5.0 logic compatible)
Communication Interfaces	
USB-A Ports	One (1) USB 2.0 port
HDMI	One (1); Supports 4K HDR 1080P 60FPS. Up to 18Gbps.
Wi-Fi	2.4 GHz, 5.0 GHz IEEE 802.11 b/g/n/ac wireless
Cellular	LTE Cat-4 4G / 3G / 2G Support, Global Band
Ethernet	Gigabit Ethernet Connector
Edge/IIoT Technology	
Edge Platform	AWS Greengrass
IoT Device Management	ArIO Maestro
Features	Remote sensor configuration; Automated Data Logging and Alerts
Data Management & Visualization:	Cloud based historian and analytics, Offline mode, Edge historian
Information Security	Secure HTTPS and MQTTS communication, User access control
Software Updates	Over-The-Air (OTA) Firmware and Edge App Updates
Environmental	
Storage Temperature	-40 to 85 deg.C
Operating Temperature	-20 to 70 deg.C
Enclosure Material	Watertight Ruggedised portable Pelican Box
Dimensions	Interior Dimensions (inches): 9.87 x 7.00 x 6.12

Channel	I/O Mapping	Sensor/Control*	Signal Type	Standard Connections
1	AI - Voltage	Pressure	+/- 12V	M12 4-Pole
2	AI - Voltage	Pressure	+/- 12V	M12 4-Pole
3	AI - Voltage	Pressure	+/- 12V	M12 4-Pole
4	AI - Voltage	Pressure	+/- 12V	M12 4-Pole
5*	AI - Current	RTD	4-20mA	Std. Round Pin Jack
6*	AI - Current	Flowmeter	4-20mA	M12 4-Pole
7*	DO	Relay	5V	4-Pin
8*	DO	Relay	5V	4-Pin

*Note: Shown as sample configuration ONLY; Can be customized for application

TECHNICAL SUPPORT

24X7 Technical Support in conjunction with ArIO Maestro

ZERO DOWNTIME

Alarm monitoring and remote system management features limits downtime and physical intervention

TURNKEY SOLUTIONS

We design custom solutions based on your application requirements with minimal lead-time

Visit us:

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