# DAQrIO
## Portable Data Acquisition and Edge Control Module

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

## 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



### 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



**AUSTIN REMOTE IO**
IOT ENABLED READY TEST GO.

# DAQrIO
## Portable Data Acquisition and Edge Control Module

## Technical Specifications

| Power | 12VDC |
|---|---|
| Memory | Up to 32GB eMMC Flash memory |
| 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