

# ArIO P5

## Integrated PLC & Edge Gateway with Multi-Channel IO

Real-Time, IIoT Ready, PLC with Edge Gateway for process critical management in industrial or remote field locations

PLC w/Edge Gateway  
Real-Time management

Smart Edge Gateway  
with custom analytics  
and cloud connectivity

Cloud based dashboard  
with multi-device  
configuration and  
management features  
(ArIO Maestro)

AWS Edge Platform

### HARSH ENVIRONMENTS

IP67 rated connectors

Operating (Storage)  
-20 to 80 deg.C  
(-40 to 85 deg.C)

C1D2 Enclosure

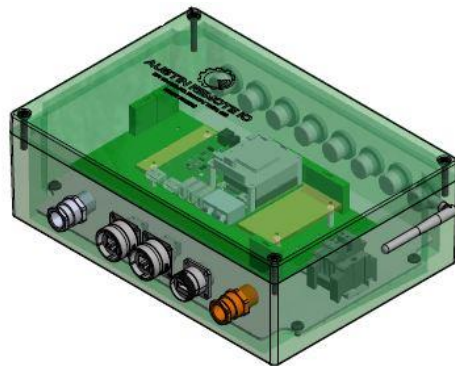
### CELLULAR/WIFI CONNECTIVITY

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

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

### BENEFITS

- Custom PLC provides powerful features including RT control, Analog&Digital I/O, high speed counters and communications
- Seamless integration with Edge Gateway for local analytics, **cloud** based data logging, visualization and historian support
- Easily manage multiple devices across a wide area network
- Cost effective and scalable architecture to accommodate additional I/O points
- “App” and PLC level updates managed using over the air update schedule
- Standard industry protocols - Modbus over TCP/IP or RS-232/RS-485
- IP67 Rated components in C1D2 enclosure



### APPLICATIONS

- Real-Time process control and monitoring with milli-sec response
- Edge/IIoT Conversion for Legacy systems (Industry 4.0)
- Oil & Gas, Utilities, Power Management, Other industrial
- Installations in harsh area and offshore locations
- Multi-Device management across wide geographical spread
- Field or workshop locations with adhoc testing requirements



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### Technical Specifications



#### 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

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Power	12-32VDC
Memory	Up to 32GB eMMC Flash memory
Micro SD Card	Yes, Update Programs / Kernels
I/O	
Analog Inputs	Qty 7, 0-5VDC / 0-10VDC / 0-20mADC
Digital Inputs, 8-32VDC	Qty 12, Sink/Source in Groups of 6
Digital Outputs, 8-32VDC, PWM or On/Off	Qty 8, Sourcing, Groups of 4
Analog Outputs (10 bit) (800Ω max load)	Qty 1, 0-10VDC / 0-20mADC
High Speed Counter / Timer Inputs, 8-32VDC	Qty 3, NPN/PNP, 100KHz Max
Thermocouple Inputs	Yes, with modular expanders
I/O Expandable	Yes, with modular expanders
Communication Interfaces	
USB-A Ports	One (1) USB 2.0 port
Serial Ports	One (1) RS232 or One (1) RS485
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
Modbus Networking	Modbus Master/Slave; Modbus over TCP/IP or RS-232/RS-485
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 80 deg.C
Enclosure Material	Precision Cast AISI12 (LM24) Aluminium Alloy
Enclosure Certification	Ex ia (Zone 0) and Ex ta (Zone 20), Zone 21, Zone 22