

RTRiO

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)

NEMA 4x Enclosure

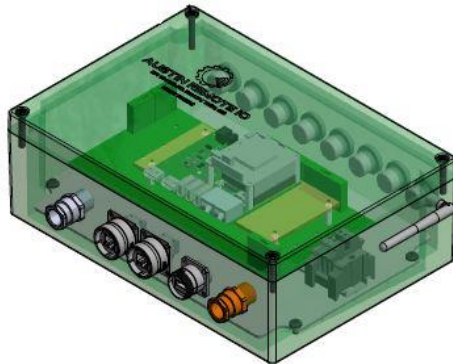
CELLULAR/WIFI CONNECTIVITY

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, NEMA 4x 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

Visit us at:

www.austinremoteio.com

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