



iO GATEWAY

IMPROVE YOUR MONITORING CAPABILITIES

In an increasingly data-driven world, bringing information from a building to a network management platform along with leveraging existing monitoring solutions are key strategies to gain a better understanding of the overall status and a comprehensive view of multiple power and cooling infrastructures.

Power and cooling devices, such as energy meters, DC system controllers, UPS, CRACs, building automation systems, fuel systems, ATS and genset controller systems provide vital data to any building operators.

Enabling integrated and secure remote connectivity to these devices is essential for enabling monitoring, alarms, automation, visualization, system optimization, and access to actionable information. iO Gateway streamlines data transport from the building to the network as well as leverages existing monitoring capabilities without any compromise.



iO Gateway's web interfaces provide an intuitive way of managing its feature set.

BENEFITS



MULTI-PROTOCOL GATEWAY



STREAMLINE DATA TRANSPORT



SECURE REMOTE MANAGEMENT PLATFORM



EVOLVING PLATFORM

NEXT-GENERATION MULTI-PROTOCOL GATEWAY

NETWORK CONNECTIVITY

iO Gateway offers a dual ethernet port configuration with integrated industry-grade security to interface with local smart devices and network/enterprise software.

SERIAL CONNECTIVITY

The two RS-485 ports can be used to manage two different serial protocols at the same time. It can also provide redundancy for a single serial protocol.

SECURED CONNECTIVITY

Secured device connectivity is an important feature for any efficient and effective building management tool. This is why iO Gateway uses industry-grade software, such as Linux's Firewall. Secured and encrypted connections can also be made to the device using HTTPS.

PASSTHROUGH CAPABILITIES

The passthrough features enable users to maintain existing features of their smart devices, such as web, console, and file transfer capabilities, even if they are on a local network.

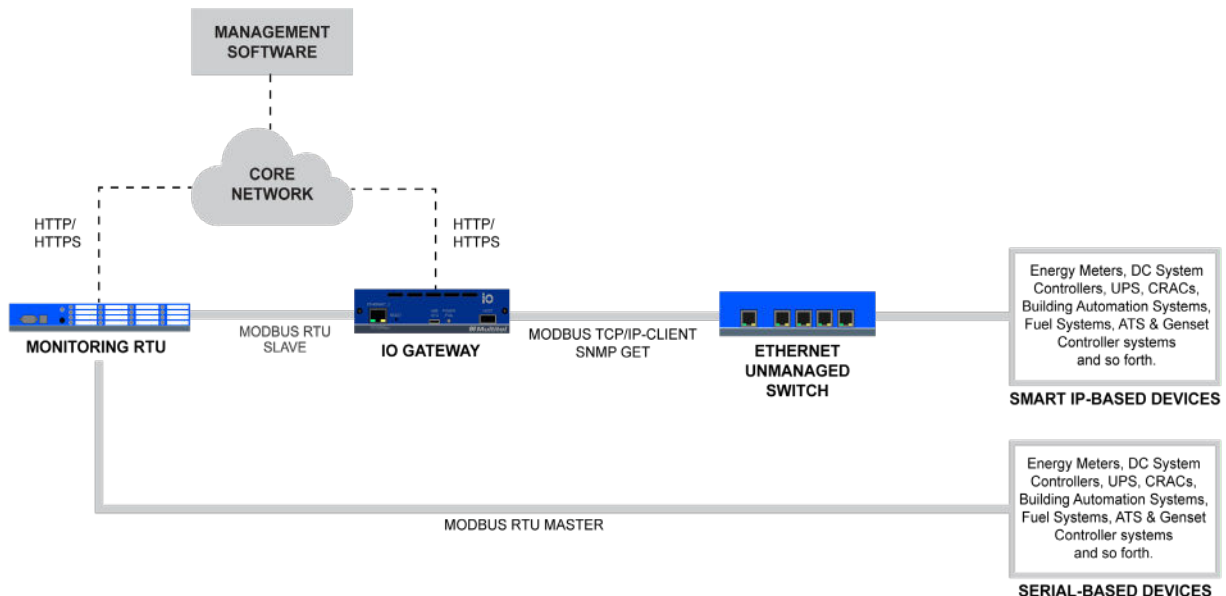
PROTOCOLS

The iO Gateway supports several protocols: HTTPS, SNMP Get v1/2c/3, SNMP Agent v1/v2c/v3, Modbus TCP/IP Client (Transparent Mode supported), Modbus RTU Controller/Responder.

SNMP TRAP FORWARDING

The iO Gateway can receive 65 traps/sec and forward them to up to 10 destinations.

SMART, RELIABLE, FLEXIBLE AND IT-SECURED MONITORING TOOLS



SPECIFICATIONS

GENERAL SPECIFICATIONS

Operating Input Voltage	-40 to -60 VDC (A & B feed) w/ Fail Relay Optional: 120 VAC
Operating Temperature	Power Supply
Dimension	-40 to +65°C (-40 to 149°F)
Weight	38.1 mm x 139.2 mm x 254 mm (1.5 in. x 5.48 in. x 10 in.) 900g (2 lbs.)

COMMUNICATION / NETWORK INTEGRATION

Serial Ports	2x RS-485 (2-wire)
Ethernet Ports	Front – 10/100Mb, Back – 1Gb
USB	3x USB 2.0
USB OTG	1x micro USB 2.0
Serial Protocols	Modbus RTU (Controller/Responder)
IP Protocols	Modbus TCP/IP (Client), SNMP Get v1/v2c/v3, SNMP Agent v1/v2c/v3
Passthrough Protocols	HTTP/HTTPS, Telnet/SSH, FTP/SFTP/SCP
Ethernet Protocols	HTTP/HTTPS
CPU	1GHz Quad-Core
Memory	1 GB DDR3
Disk	8 GB (expandable to 32 GB)

CERTIFICATIONS

Safety	UL-62368-1 CSA C22.2#62368-1:2014Ed.2 & C22.2#205:2017Ed.3
Emission	FCC Part 15, Subpart B ICES-003

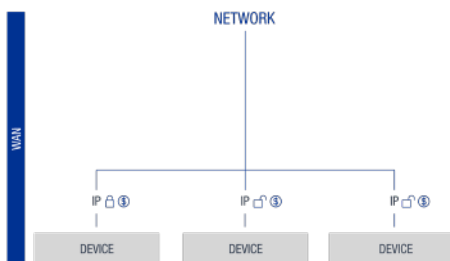
TRAP PERFORMANCES

500 Data points/10 sources	60 Traps received / second 2 Traps inform forwarded / second
1500 Data points/10 sources	60 Traps received / second 2 Traps inform forwarded / second
3000 Data points/10 sources	1.5 Traps received / second 1.5 Traps inform forwarded / second

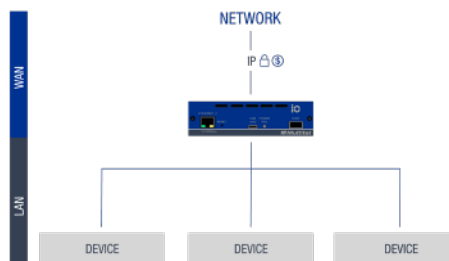
WHY CHOOSE iO Gateway?

iO Gateway is a comprehensive solution that has been designed to deal with today's reality of fast-moving technologies. It allows users to keep their existing monitoring solutions and, at the same time, benefit from the latest technologies and keep complete visibility on their devices. Furthermore, improve cybersecurity by using secured protocols and reduce the number of IP addresses throughout the network by having one IP address for multiple devices.

WITHOUT iO GATEWAY



WITH iO GATEWAY



KEY MARKETS



TELECOMMUNICATIONS



POWER UTILITIES



RAILWAYS



CATV/BROADBAND

Acquiring iO Gateway enables users to maintain and improve their existing monitoring solutions, all while benefiting from current technology trends.

Data source dashboard

Status	ID	Datapoint Description	Protocol	Slave ID	IP Address	Value	Actions
●	[Alpha_Max_SNMP1] DC Plant - Alpha - Cordex CIC HP		SNMP		10.20.4.89	●	Feedback
●	S2A11	System Voltage				53.0 V	Feedback
●	S2A12	Input AC Voltage				119.8 V	Feedback
●	S2A13	Total Load Current				101.1 A	Feedback
●	[Alpha_Max_SNMP2] DC Plant - Alpha - Cordex CIC HP		SNMP		10.20.4.89	●	Feedback
●	S2A11	System Voltage				53.0 V	Feedback
●	S2A12	AC Input Voltage				119.8 V	Feedback
●	S2A13	Total Load Current				101.1 A	Feedback
●	[Alpha_Max_SNMP3] DC Plant - Alpha - Cordex CIC HP		SNMP		10.20.4.89	●	Feedback
●	[Alpha_Max_STD] DC Plant - Alpha - Cordex CIC HP		Modbus TCP/IP	2	10.20.4.89	●	Feedback
●	M4A11	System Voltage				53.0 V	Feedback
●	M4A12	AC Input Voltage				119.8 V	Feedback
●	M4A13	Total Load Current				101.1 A	Feedback
●	[Alpha_Max_TRA] DC Plant - Alpha - Cordex CIC HP		Modbus TCP/IP	2	10.20.4.89	●	Feedback

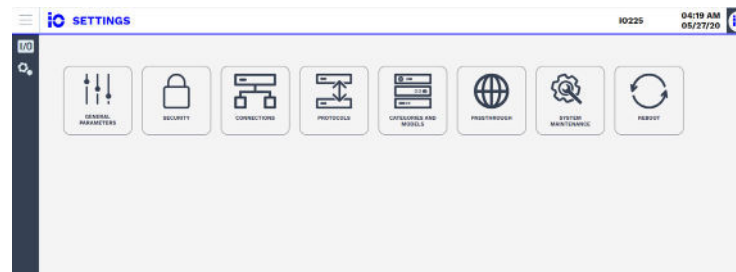
Passthrough

#	Network	Protocol	Source Port	Destination IP	Destination Port	Additional Port	Action	Status	Web Access
1	P1	HTTP	8080	10.20.349	80	8081	Passthrough	●	Feedback
2	P2	HTTP	8080	10.20.349	81		None	●	Feedback
3	P3	HTTP	8080	10.20.3186	80		None	●	Feedback
4	P4	HTTP	8080	10.20.4188	80		None	●	Feedback
5	P5	HTTP	8080	10.20.4122	80		None	●	Feedback
6	P6	SSH	8080	10.20.4122	22		None	●	Feedback
7	P7	HTTP	8084	10.20.4122	80		None	●	Feedback
8	P8	HTTP	8108	10.20.312	80		None	●	Feedback

SNMP Trap forwarding

Destination Name	Destination IP Address/ Domain Name	Port	SNMP Version	Notification Type	Notification Timeout	Notification Retries	Trap Allow Trap Delay	Status
U	v3	+	Trap - Unacknowledged	5 s	3	None	●	
	v3Wc	+	Inform - Acknowledged			None	●	

Settings



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Take advantage of the power and performance of our next-gen multi-protocol gateway.

Contact us today:
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