



iO Gateway

IMPROVE YOUR MONITORING CAPABILITIES

In an increasingly data-driven world, bringing information from a building to a network management platform and leveraging existing monitoring solutions are key strategies to gaining 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.

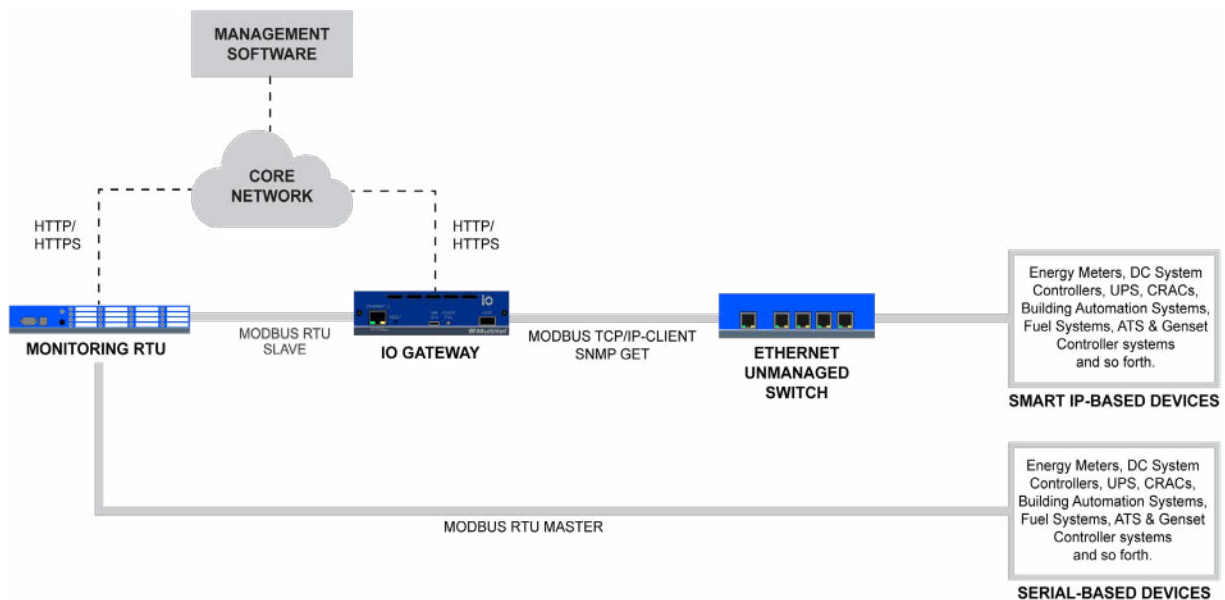
PASSTHROUGH CAPABILITIES

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

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 Client/Server.

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 Power Supply
Operating Temperature	-40 to +65°C (-40 to 149°F)
Dimension	38.1 mm x 139.2 mm x 254 mm (1.5 in. x 5.48 in. x 10 in.)
Weight	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 (Master/Slave)
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 (expendable to 32 GB)

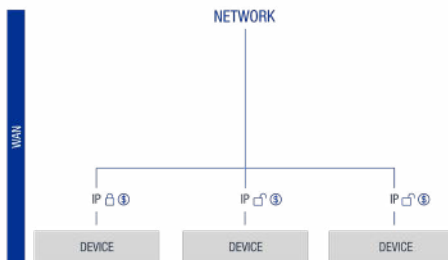
CERTIFICATIONS

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

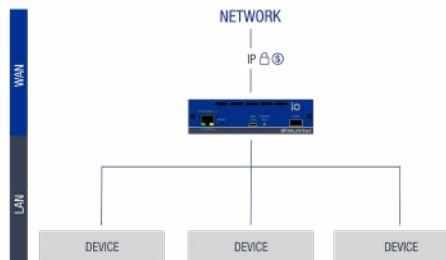
WHY CHOOSE iO Gateway?

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.

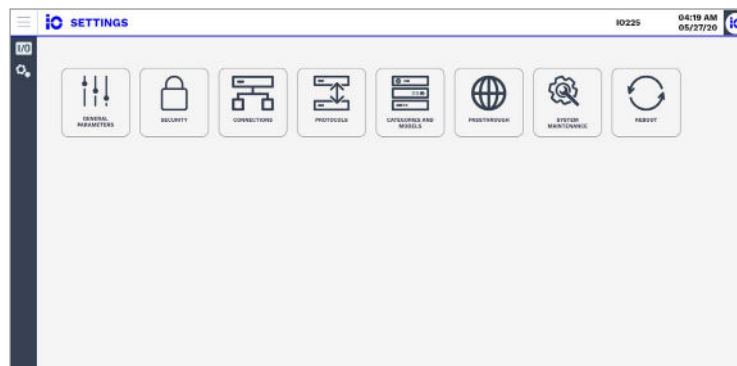
Data source dashboard

Status	ID	Description	Protocol	Slave ID	IP Address	Value	Actions
●	[Alpha_Max_SNMFP1] : DC Plant - Alpha - Cordelec CXC HP		SNMP		10.20.4.89		Refresh
●	S2A11	System Voltage				53.0 V	Refresh
●	S2A12	Input AC Voltage				119.8 V	Refresh
●	S2A13	Total Load Current				10.1 A	Refresh
●	[Alpha_Max_SNMFP2] : DC Plant - Alpha - Cordelec CXC HP		SNMP		10.20.4.89		Refresh
●	S2A11	System Voltage				53.0 V	Refresh
●	S2A12	AC Input Voltage				119.8 V	Refresh
●	S2A13	Total Load Current				10.1 A	Refresh
●	[Alpha_Max_SNMFP3] : DC Plant - Alpha - Cordelec CXC HP		SNMP		10.20.4.89		Refresh
●	[Alpha_Max_STD] : DC Plant - Alpha - Cordelec CXC HP		Modbus TCP/IP	2	10.20.4.89		Refresh
●	MAA11	System Voltage				53.0 V	Refresh
●	MAA12	AC Input Voltage				119.8 V	Refresh
●	MAA13	Total Load Current				10.1 A	Refresh
●	[Alpha_Max_TRA] : DC Plant - Alpha - Cordelec CXC HP		Modbus TCP/IP	2	10.20.4.89		Refresh

Passthrough

Name	Protocol	Source Port	Destination IP	Destination Port	Additional Port	Action	Status	Web Access
P1	HTTP	8000	10.20.4.85	80	8081	Passthrough	●	Refresh
P2	FTP	8000	10.20.4.85	21		None	●	Refresh
P3	HTTP	8000	10.20.4.85	80		None	●	Refresh
P4	HTTP	8000	10.20.4.86	80		None	●	Refresh
P5	HTTP	8000	10.20.4.252	80		None	●	Refresh
P6	SSH	8000	10.20.4.252	22		None	●	Refresh
P7	HTTP	8000	10.20.4.252	80		None	●	Refresh
P8	HTTP	8000	10.20.4.82	80		None	●	Refresh

Settings interface



Multitel

2500 Jean-Perrin Street
Suite 175
Quebec (QC) G2C 1X1
Tel 418.847.2255
Toll Free 1.888.685.8483
info@multitel.com

multitel-inc
 multitel.inc

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

Contact us today:
multitel.com