



# LEVERAGE YOUR OSP INFRASTRUCTURE'S POWER AND COOLING DATA

Engineered to seamlessly integrate into both outside plant cabinets and small inside plant facilities, this compact device revolutionizes remote power and cooling asset monitoring.

With the LTE and fiber connectivity options, extend your reach to remote sites that were previously beyond your grasp.

Experience the future of asset monitoring with the powerful iO mini.



The essential functionalities of the iO Gateway with the most compact design.

## FEATURES



MULTI-PROTOCOL GATEWAY



STREAMLINE DATA TRANSPORT



SECURE REMOTE MANAGEMENT PLATFORM



CENTRALIZED ACCESS



UP TO 10X CONNECTED DEVICES



UP TO 250 DATA POINTS

# SPECIFICATIONS

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## GENERAL SPECIFICATIONS

Operating Input Voltage	18 to 60 Vdc (A & B feed) w/ Fail Relay   Optional: 120 VAC Power Supply
Operating Temperature	-40 to +65°C (-40 to 149°F)
Dimensions	124.1 mm x 116.40 mm x 37.7 mm (4.91 in. x 4.63 in. x 1.59 in.)
Weight	350g (0.77 lbs.)

## COMMUNICATION / NETWORK INTEGRATION

Serial Ports	Up to 2x RS-485 (2-wire)
Ethernet Ports	Front – 10/100Mb, Back – 1Gb
USB	1x 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	2 GB DDR3
Disk	16 GB

## CERTIFICATIONS

Safety	TBD
Emission	TBD

# WHY CHOOSE **iO mini** ?

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In the dynamic landscape of telecommunications, staying connected to your assets has never been more crucial. With our innovative **iO mini**, you can now monitor and manage your outside plant assets with unparalleled ease and efficiency.

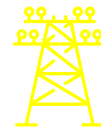
Designed to seamlessly integrate into **outside plant cabinets and small inside facilities**, our compact device offers a powerful solution for remote asset monitoring. Whether it's monitoring equipment status, tracking environmental conditions, or ensuring security, our telemetry device provides real-time insights to keep your operations running smoothly.

# KEY MARKETS



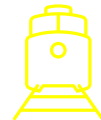
## TELECOMMUNICATIONS

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## POWER UTILITIES

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## RAILWAYS

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## CATV/BROADBAND

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# POWERFUL & COMPACT MULTI-PROTOCOL GATEWAY

## NETWORK CONNECTIVITY

The iO mini offers up to two Ethernet ports with integrated industry-grade security to interface with local smart devices and network/enterprise software. Cellular LTE and STP fiber-based connections are also available as options.

## SERIAL CONNECTIVITY

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

## SECURED CONNECTIVITY

Implementing an iO mini will improve the cybersecurity of critical power and cooling infrastructure by employing SNMPv3's ability to authenticate and encrypt payloads. Implementing LDAP authentication can validate users' identities and access rights. The iO mini can create boundaries between Networks by physically separating the Local Area Network (LAN) and Corporate Network.

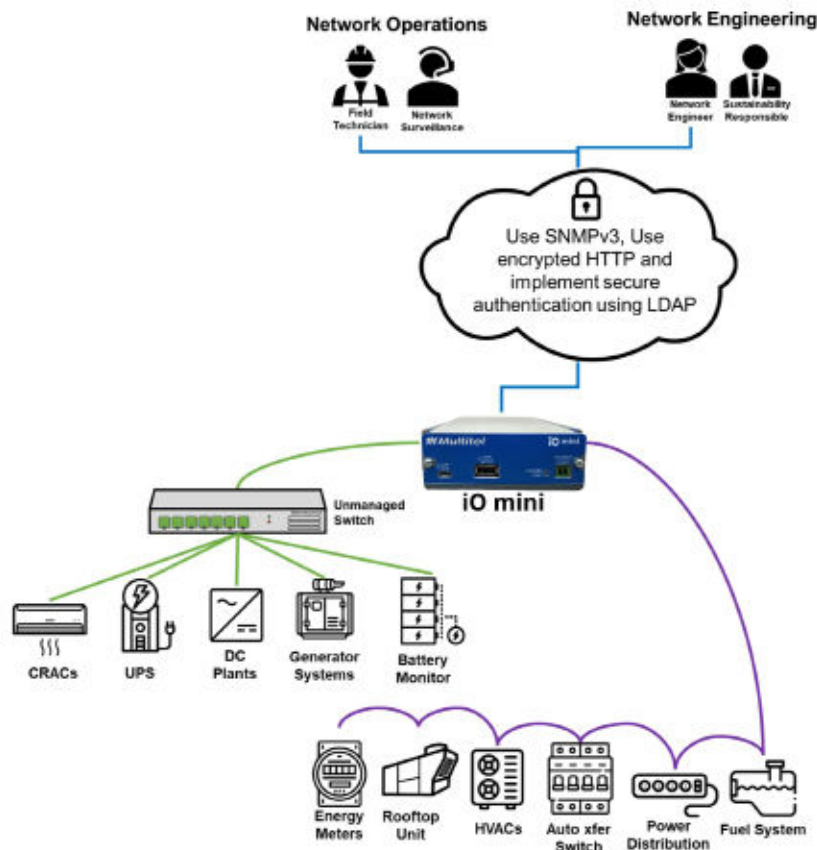
## PASSTHROUGH CAPABILITIES

The passthrough features enable users to maintain existing aspects of their smart devices, such as web, console, and file transfer capabilities, even if they are on a local network. Leverage HTTPS Proxy functionality to gain remote access to unsecured HTTP devices using the latest TLS encryption.

## PROTOCOLS

iO mini supports several protocols: HTTP/HTTPS; SNMP get v1, v2, v3; SNMP trap v1, v2, v3; Modbus RTU master/slave; Modbus TCP/IP client; MQTT; SSH; LDAPS; DNS; DHCP; NTP.

## SMART, SMALL, RELIABLE AND IT-SECURED MONITORING TOOLS



# iO mini enables users to improve their existing Outside Plant monitoring solutions, unlocking new levels of efficiency in operations.

**DATA SOURCES |** DataSource

10225 04:18 AM 05/27/20

Equipment Passthrough Apply Filter

Status	ID	Datapoint Description	Protocol	Slave ID	IP Address	Value	Actions
●	[Alpha_Max_SNMP1]	DC Plant - Alpha - Cordev CXC HP	SNMP		10.20.4.89	●	<span>Passthrough</span> <span>⋮</span>
●	S2A11	System Voltage				53.0 V	<span>⏪</span> <span>⏩</span>
●	S2A12	Input AC Voltage				119.8 V	<span>⏪</span> <span>⏩</span>
●	S2A13	Total Load Current				10.1 A	<span>⏪</span> <span>⏩</span>
●	[Alpha_Max_SNMP2]	DC Plant - Alpha - Cordev CXC HP	SNMP		10.20.4.89	●	<span>Passthrough</span> <span>⋮</span>
●	S2A11	System Voltage				53.0 V	<span>⏪</span> <span>⏩</span>
●	S2A12	AC Input Voltage				119.8 V	<span>⏪</span> <span>⏩</span>
●	S2A13	Total Load Current				10.1 A	<span>⏪</span> <span>⏩</span>
●	[Alpha_Max_SNMP3]	DC Plant - Alpha - Cordev CXC HP	SNMP		10.20.4.89	●	<span>Passthrough</span> <span>⋮</span>
●	[Alpha_Max_STD]	DC Plant - Alpha - Cordev CXC HP	Modbus TCP/IP	2	10.20.4.89	●	<span>Passthrough</span> <span>⋮</span>
●	M4A11	System Voltage				53.0 V	<span>⏪</span> <span>⏩</span>
●	M4A12	AC Input Voltage				119.8 V	<span>⏪</span> <span>⏩</span>
●	M4A13	Total Load Current				10.1 A	<span>⏪</span> <span>⏩</span>
●	[Alpha_Max_TRA]	DC Plant - Alpha - Cordev CXC HP	Modbus TCP/IP	2	10.20.4.89	●	<span>Passthrough</span> <span>⋮</span>

Data source dashboard

**SETTINGS |** Passthrough

Multitel Application Lab 04:19 PM 05/28/20

Passthrough Apply Filter

Master	Protocol	Source Port	Destination IP	Destination Port	Additional Port	Action	Status	Web Access
P1	HTTP	8000	10.20.3.42	80	None	Passthrough	●	Passthrough
P2	FTP	8000	10.20.3.42	21	None	Passthrough	●	Passthrough
P3	HTTP	8000	10.20.3.42	80	None	Passthrough	●	Passthrough
P4	HTTP	8000	10.20.4.88	80	None	Passthrough	●	Passthrough
P5	HTTP	8000	10.20.4.22	80	None	Passthrough	●	Passthrough
P6	SSH	8000	10.20.4.22	22	None	Passthrough	●	Passthrough
P7	HTTP	8004	10.20.4.22	80	None	Passthrough	●	Passthrough
P8	HTTP	8004	10.20.3.42	80	None	Passthrough	●	Passthrough

Show: 10 entries Showing 10 of 8 entries Previous Next

Passthrough

**SETTINGS**

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- GENERAL PARAMETERS
- SECURITY
- CONNECTIONS
- PROTOCOLS
- OUTSOURCING AND MODELS
- PASSTHROUGH
- SYSTEM MAINTENANCE
- RESET

Settings interface

**Contact us today to learn more about how the iO mini can revolutionize your remote asset management strategy!**

**Multitel**

3710 Wilfrid Hamel Blvd.  
Quebec (QC) G1P 2J2  
Tel 418.847.2255  
Toll Free 1.888.685.8483  
info@multitel.com

multitel-inc

Take advantage of the power and performance of our most compact multi-protocol gateway.

Contact us today:  
**multitel.com**