



iO Supervisor

EMBRACE THE FUTURE OF MONITORING AND CONTROL

The iO Supervisor is an industrial-grade all-in-one remote telemetry and control unit designed to optimize your large and medium critical facility operations and reduce downtime effortlessly into diverse systems and protocols, making it the ultimate choice for streamlined and reliable facility management

Leverage real-time monitoring to receive notifications and prevent costly downtime. With data-driven intelligence, ensure efficient operations and resource utilization such as truck roll dispatch and capacity planning. Its scalable and flexible architecture adapts seamlessly to growing infrastructure needs, ensuring longevity and adaptability.

With its cost-saving capabilities, it minimizes operational expenses through efficient data transport and centralized management.

Built with advanced interoperability, the iO Supervisor integrates effortlessly into diverse systems and protocols, making it the ultimate choice for streamlined and reliable facility management.



Elevate your monitoring and control capabilities to new heights.

FEATURES



MULTI-PROTOCOL GATEWAY



EDGE COMPUTING



SECURE REMOTE MANAGEMENT PLATFORM



CENTRALIZED ACCESS



UP TO 100X CONNECTED DEVICES



STREAMLINE DATA TRANSPORT

BENEFITS

INCREASED EFFICIENCY

Streamline operations with automated decision-making and rapid response to issues.

SIMPLIFIED INFRASTRUCTURE & COST SAVINGS

Combining multiple devices into one reduces hardware requirements, simplifies the overall system architecture, and potentially lowers costs associated with equipment and maintenance.

INCREASED FLEXIBILITY

The integrated device can handle a wider range of tasks and adapt to various industrial applications, from utilities and telecommunications to manufacturing and data.

SCALABILITY

Adapt to your growing needs with flexible integration options.

ENHANCED SAFETY

Proactively monitor and control potentially hazardous situation.

ADVANCED DATA PROCESSING

The inclusion of edge computing capabilities enables on-site data processing and analysis, reducing latency and improving real-time decision-making.

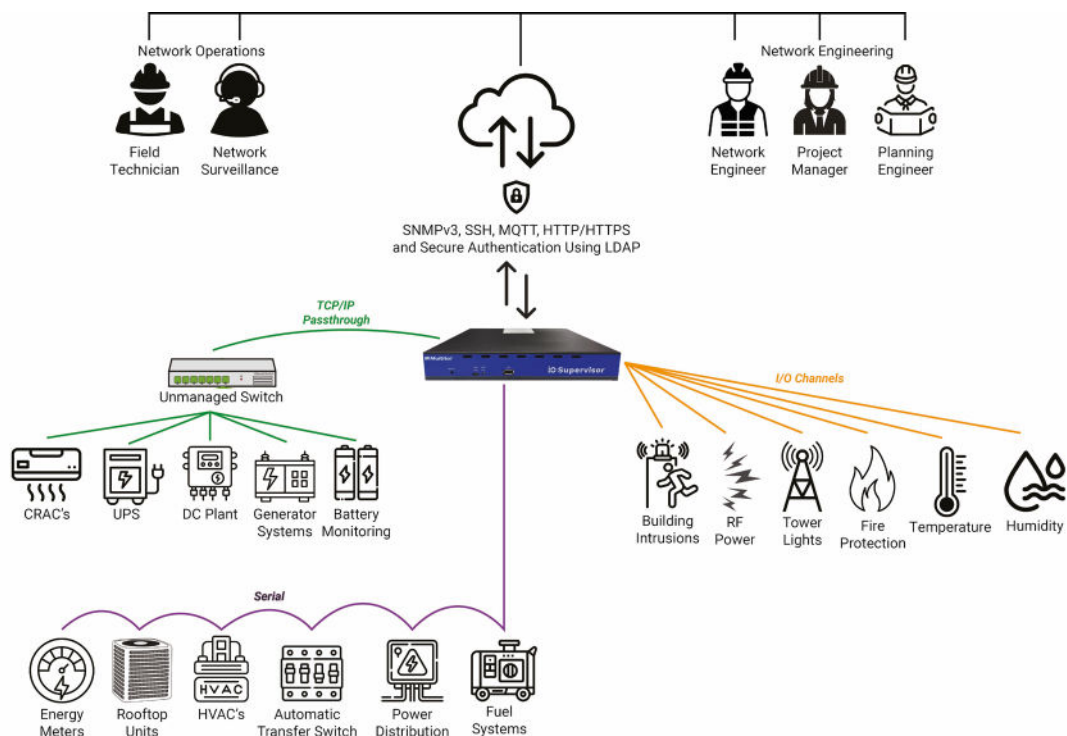
IMPROVED SYSTEM INTEGRATION

By merging the integration capabilities of both devices, the iO Supervisor can more effectively connect and manage diverse systems and legacy equipment.

CYBERSECURITY

HTTPS, LDAP authentication, SNMP v3 traps and a WAN/LAN application to maintain visibility on data of unsecure devices.

SMART, EFFICIENT, RELIABLE AND IT-SECURED MONITORING TOOLS



SPECIFICATIONS

GENERAL SPECIFICATIONS

Operating Input Voltage	-21 to -60 VDC (A & B feed) w/ Fail Relay
Operating Temperature	-40 to +65 °C (-40 to 149 °F)
Operating Humidity	5 to 90% RH Non condensing
Dimensions	283.0 x 254.0 x 38.1 mm (11.1 in. x 10.0 in. x 1.75 in.)
Weight	3175g (7.0 lb)

COMMUNICATION / NETWORK INTEGRATION

Serial Ports	2x RS-485
Ethernet Ports	1x 1Gbps , 1x 100Mbps
USB	3x USB 2.0
USB OTG	1x micro-USB 2.0
Serial Protocols	Modbus RTU (Client/Server)
IP Protocols	Modbus TCP/IP (Client/Server), SNMP Get v1/v2c/v3, SNMP Agent v1, v2c, v3, MQTT
Ethernet Protocols	HTTP/HTTPS
Network Protocols	NTP, DNS, DHCP
Authentication Protocols	LDAP (Client), RADIUS (Client)
Remote Access Protocols	SSH
File Transfer Protocols	SFTP
CPU	1.6 GHz Quad-Core
Memory	2 GB DDR3
Storage	16 GB

CERTIFICATIONS

Safety	UL 62368-1:2014 Ed.2 CSA C22.2#62368-1:2014 Ed.2
Emissions	FCC Part 15, Subpart B (2022) class A ICES-003 issue 7 (2020) class A

EXPANSION I/O MODULES

Analog Inputs	Up to 11 channels (0-60Vdc, 0-10Vdc, 50mV, AC Volts, AC Current, Temperature, Humidity)
Binary Inputs	Up to 64 channels referenced
Binary Outputs	Up to 8 relays

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 Supervisor?

The iO Supervisor offers unmatched versatility, combining the diverse functionalities of the Fusion and the iO Gateway. Whether you need advanced system integration or secure network access, the iO Supervisor has you covered.

With the iO Supervisor, you can replace multiple devices with a single, efficient unit, reducing complexity and improving reliability. Its robust design ensures continuous operation even in demanding environments.

From site monitoring to environmental control, the iO Supervisor provides comprehensive tools to keep your systems running smoothly. Gain real-time insights and take proactive measures to maintain optimal performance.

Its versatile features make it the ideal choice for businesses looking to modernize their infrastructure and gain a competitive edge in today's data-driven world.

KEY MARKETS SECTORS



TELECOMMUNICATIONS



POWER UTILITIES



RAILWAYS



CATV/BROADBAND



ENERGY

By combining the best of the FUSION and the iO Gateway, the **iO Supervisor** provides a wide range of features:



IP Address Management



Smart Battery Integration



Protocol Conversion



Edge Computing



Secure Network Access



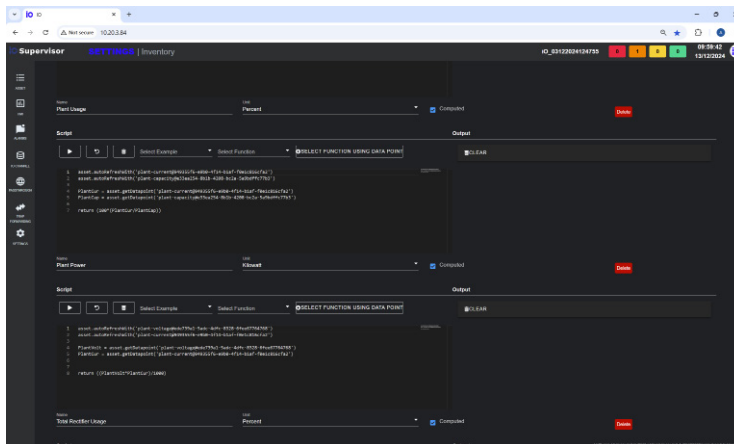
Capacity Management



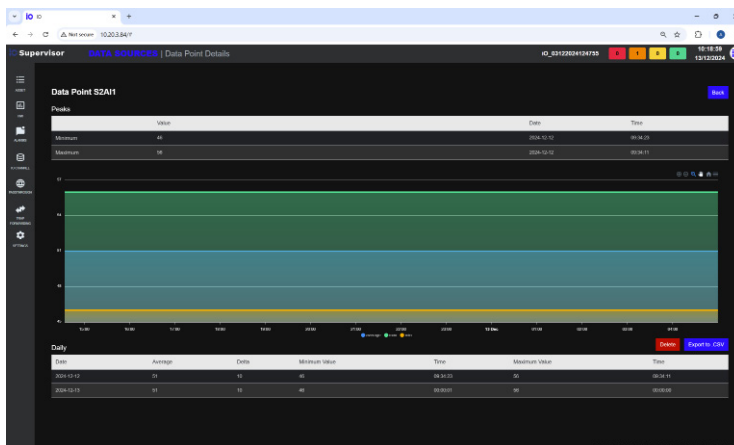
Legacy RTU Replacement & Management



Site Monitoring



Computed Data Points



Logs/Statistics for Analog and Binary Data Points

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The iO Supervisor isn't just a device—it's a game-changer for your infrastructure.

Contact us today:
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