

INTRODUCING THE PULSEPORT

PulsePORT is an Industrial Internet of Things (IIoT) system, created in order to bring modularity and flexibility to the world of remote data acquisition.

The Pulse-PORT is an ultra low-power, fully-autonomous wireless telemetry device that operates best-of-breed, third-party sensors. The sampled sensor data is collected, transmitted securely, and then stored on PulseMAC's cloud-server or a customer's on-premises server. Pulse-PORT are remotely configurable and data can be visualized and managed via PulsePORT's web-based IoT Platform. Data can also be integrated into SCADA and other software systems.



SCADA & Software



From cloud-based hosting and an intuitive user-interface to secured and streamlined SCADA connectivity, the PulsePORT delivers data directly where it is needed. Integrating with models, analytics, and business intelligence solutions has never been easier.

Autonomous Operation & Redundant Communication



Low-power and predictive analysis algorithms result in up to 30% extended battery life. Redundant communication concurrently support LTE (4G), 3G, 2G, LPWAN and Bluetooth connectivity.



Cyber-Security & Alerts



PulsePORT are embedded in every layer from the ground up with the most advanced cyber-security technology, including sensor authentication and data encryption. Receive alerts in case of an urgent event.

Reduced Cost of Ownership



As an integrated, modular, and preconfigured solution that allows for plug-and-play installation and requires minimal maintenance, PulsePORT deliver an attractive total cost of ownership.

Rapid Deployment & Scalability



PulsePORT are sensor-agnostic, utilizing various configurations of sensors and samplers. Easily installed and operating within minutes, PulsePORT can be used to build or extend smart networks.



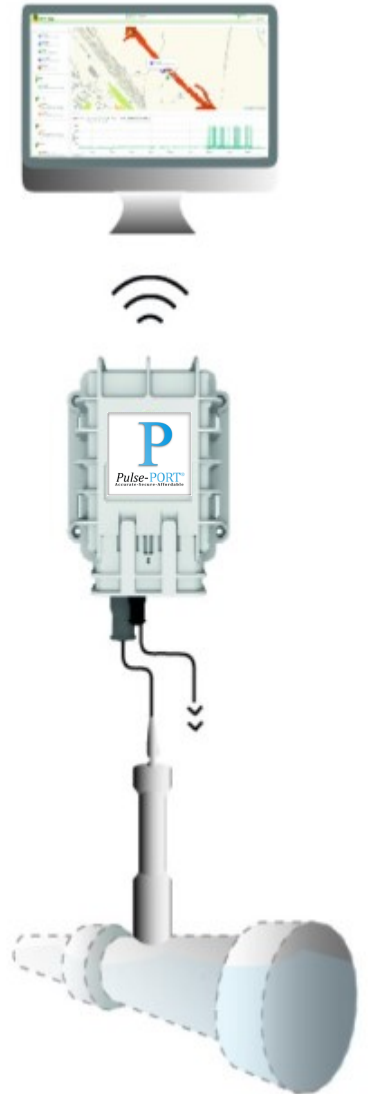
BRINGING DATA TO SCADA & SOFTWARE

PulsePORT works with utilities to bring secure, robust data collection solutions to the water, wastewater, environmental, oil and gas, and industrial markets. PulsePORT's remote monitoring device, the PulsePORT, integrates with any sensor and transmits critical data to any SCADA or system.

THE PULSEPORT REMOTE MONITORING SYSTEM

PulsePORT is a rugged device that autonomously operates using battery, solar power, or a permanent power source. The sampled sensor data is collected, transmitted securely, and then stored on PulseMAC's cloud-server and/or a customer's on-premises server. Data can be visualized and managed via PulsePORT's web-based graphical data management system, and integrated into SCADA systems and third-party software.

With its introduction to the infrastructure market, the PulsePORT is becoming a dominant IIoT solution for creating cyber-secure, plug-and-play, affordable smart infrastructure networks.



BENEFITS OF PULSEPORT—SCADA PARTNERSHIP

Collect big data and business intelligence data, while improving the quality and quantity of information collected.

Streamline existing data collection devices with one rugged IIoT device.

Create and scale industrial automation projects, operational intelligence processes, and smart sensor networks.

Reduce labor costs associated with hardware integration, maintenance, and installation.

PulseMAC Solutions provides cyber-secure, plug-and-play, remote monitoring solutions designed for various markets. PulsePORT has an installed base in challenging locations and earned a reputation for excellent customer service. Bringing together a state-of-the-art hardware and cloud-based software package, PulseMAC Solutions are leading the infrastructure monitoring sector into the future.

PULSEPORT SPECIFICATIONS

Data & Software

Data Hosting	Private Cloud or On-Premises Server
Cyber-Security	TLS 1.2 Protocol (including AES-256 Encryption)
Software Integration	REST API, SOAP API
SCADA Integration	OPC-UA, DNP3, CSV
PulsePORT IoT Platform	Web-Based from Desktop, Tablet, Mobile

Data Export Options	CSV
Device Memory	8 GB
Data Communication	Bidirectional
Alarm Notification	SMS, Email, Voice
Alarm Threshold	Up to 4 per Data Stream
System Health Check	Included

*Optional Solar Package Available

Power

Primary Power Supply	Internal Lithium Battery, 3.9 V DC 3A, Field-Replaceable and Military Grade
Internal Battery Capacity	32Ah
Operational Run Time	4+ Years *
Battery Status Notifications	Included
External Power	Solar and Line Power Compatibility, Automatic Power Source Switching
Voltage Input	5-28VDC

Connectivity

Communication Network	4G (LTE), 3G, 2G, LPWAN; Bluetooth Low-Energy
SIM Card(s)	Dual SIM Slots
Cellular Roaming	Multi-Network, Non-Steered SIM(s); Data Plan Included Supporting Over 140 Countries
Configuration & Upgrades	Remotely (over-the-air), USB PC Connection
Data Transmission	Periodic, Data-Dependent
Antenna	External Antenna Support with Backup Internal Antenna
Built-In GPS	Included

*Monthly Service Subscription