

INDUSTRIAL IOT GATEWAY

Simplify and Automate Edge-to-HMI Data Communications

PRE-INSTALLED SIGNALFIRE APPLICATION

ENABLES COMMUNICATIONS BETWEEN SIGNALFIRE NETWORK AND CLOUD-BASED HEAD-END SYSTEMS

BUILT-IN PROTOCOL TRANSLATION ENGINE

SUPPORTS CELLULAR, WIFI, AND BLE CONNECTIVITY

SUPPORTS API INTEGRATION WITH MQTT/SPARKPLUGB

STATE-OF-THE-ART SECURITY

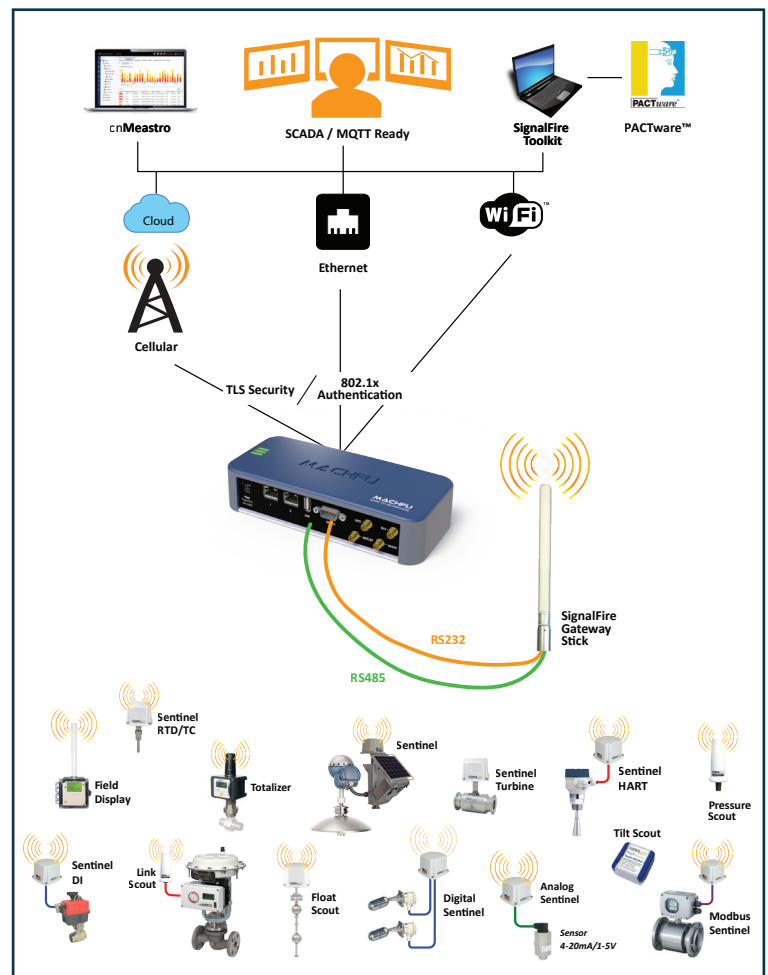


DESCRIPTION

SignalFire and Machfu have teamed up to offer an Industrial IoT Gateway that integrates with SignalFire's 900MHz wireless telemetry network to bring sensor and controller data automatically into their SCADA monitoring system's dashboards. This solution allows operators to view their data anywhere, anytime, get alerted to data outages, and remotely diagnose problems in the field. With SignalFire software built-in, setup time is significantly reduced, and single-touch auto-discovery of nodes is instant. Transmission is secure, using TLS Security and 802.1x Authentication, and can take place via cellular, wifi, or Ethernet connections.

BENEFITS

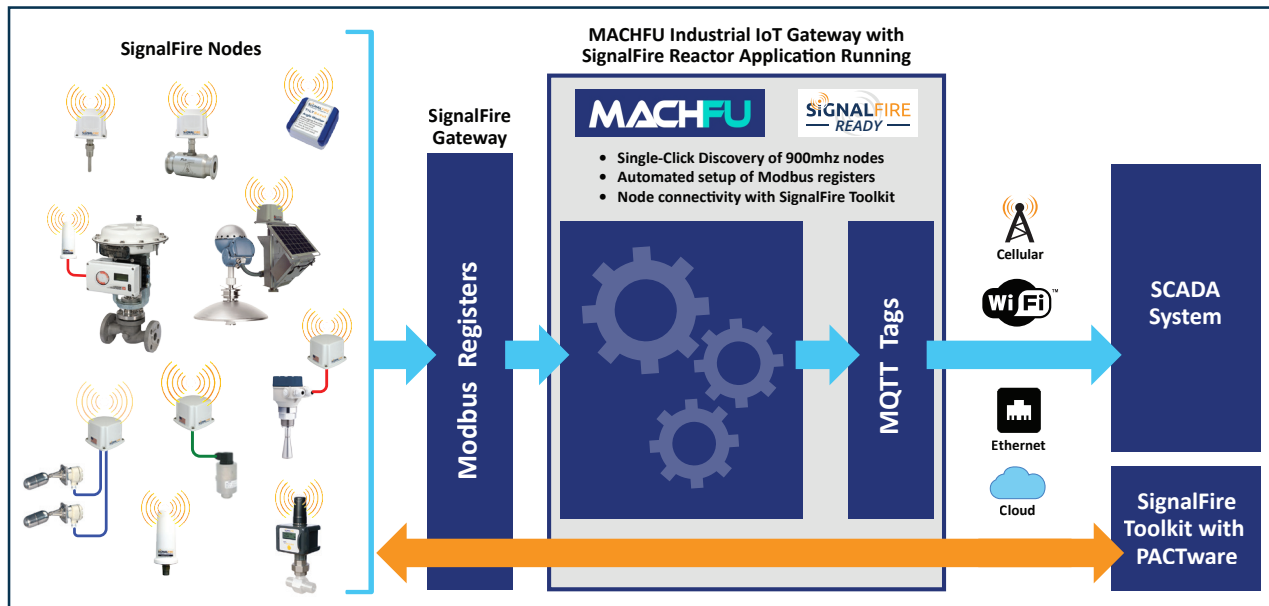
- SignalFire Ready with a single click operation to discover SignalFire wireless nodes and setup MQTT tags
- Secure & flexible connectivity using either WiFi, Ethernet, or Cellular
- MQTT/SparkPlugB support to integrate with a variety of leading SCADA monitoring software
- SignalFire Toolkit remote connectivity to monitor and troubleshoot the SignalFire nodes
- Remote connectivity to HART instruments using software like PactWare
- On premise or cloud connectivity
- Multi-protocol translation capabilities to integrate with a variety of applications
- Multi-dimensional security features for versatile and secure sensor-to-cloud solution



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COMMUNICATION DIAGRAM



SIGNALFIRE REACTOR SCREEN

The screenshot shows the MACHFU SignalFire Reactor web interface. It includes a navigation sidebar on the left and a main content area with several sections:

- MQTT/SparkPlug Broker Settings:** A table with columns for Host Address, Port Number, Encoding, Transport, Group ID, Node ID, Client ID, Credential Alias, User Name, and Password. A "One-Click Auto-Discovery of SignalFire Nodes" callout points to the "Discover" button.
- Discovery Process:** A section with a "SignalFire Discovery" button. An "Automated Setup of Modbus Registers" callout points to this section.
- Discovered Devices:** A table listing discovered devices with columns for Device Type, Discovered Count, Register Count, and Remote ID.
- MQTT Broker Status:** A section showing the status of the MQTT Broker, including a "Built-in Device Templates for SignalFire Nodes" callout.
- Device Status:** A table showing the status of the MQTT Broker, including Check-in Interval and Last Check-in.