MCA

SCADA Solutions | Motorola MC-Edge

Motorola SCADA/IoT solutions have been implemented worldwide for over 45 years, and their product line is advancing into the future.

Your Gateway to Successful Mission-Critical IoT Deployments

Now, more than ever, systems operating in mission-critical environments require newer more robust levels of network connectivity and security. Whether it's a natural disaster or a man-made emergency, IoT devices are often on the first line of defense.

The MC-Edge is an intelligent gateway designed for IoT applications. MC-Edge's extensive security, ultra-reliable communication capabilities and reliability of transport across LMR, LTE, and analog radio modes make it easy for you to implement, support and grow your IoT systems to fully support all your mission-critical operations.

Built for versatility, MC-Edge can be used as an Aux I/O server at dispatch centers, enabling Motorola dispatch consoles to control physical access and other facility systems. MC-Edge has you covered today, and prepared for tomorrow.

MC-Edge works with the ThingPark application, that utilizes Actility's LoRaWAN Network, and is fully configurable and manageable from its' enterprise console — addressing your needs for the strictest requirements in security and operational continuity.
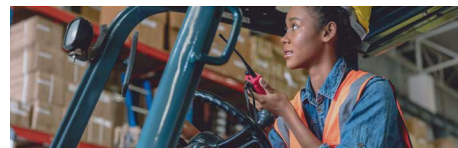
Ideal For Various Mission-Critical Applications

Commercial
Water and Wastewater
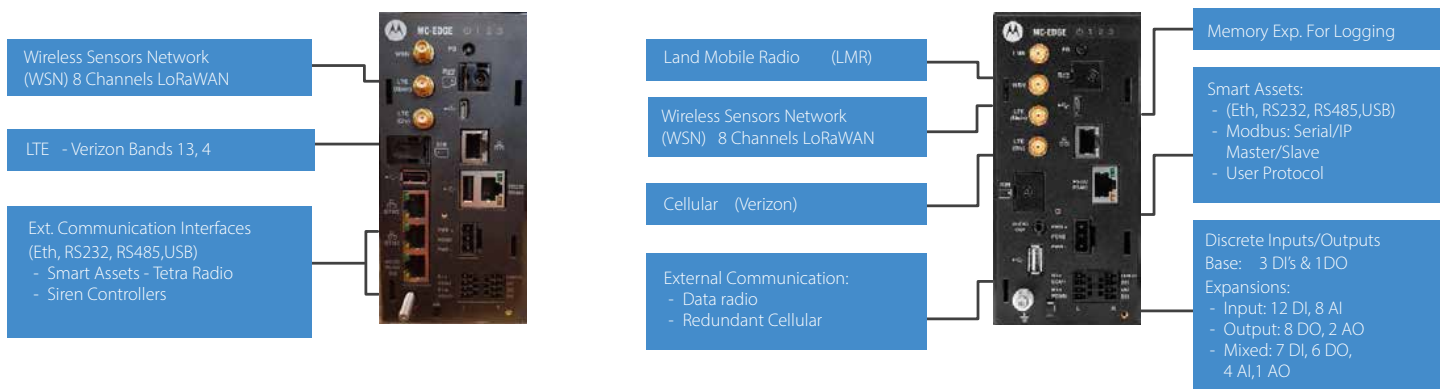Oil and Gas Companies
Electric and Power Utilities

Government
Mass Notification Systems
Safety and Security Monitoring
City Utilities | Water & Electric

Smart Cities
Flood Monitoring
Traffic Management
Environmental Monitoring

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MC-Edge Intelligent Gateway

MGA

Wireless Sensors Network
(WSN) 8 Channels LoRaWAN

LTE - Verizon Bands 13, 4

Ext. Communication Interfaces
(Eth, RS232, RS485,USB)
 - Smart Assets - Tetra Radio
 - Siren Controllers

Land Mobile Radio   (LMR)

Wireless Sensors Network
(WSN) 8 Channels LoRaWAN

Cellular   (Verizon)

External Communication:
 - Data radio
 - Redundant Cellular

Memory Exp. For Logging

Smart Assets:
 - (Eth, RS232, RS485,USB)
 - Modbus: Serial/IP
   Master/Slave
 - User Protocol

Discrete Inputs/Outputs
Base: 3 DI's & 1DO
Expansions:
 - Input: 12 DI, 8 AI
 - Output: 8 DO, 2 AO
 - Mixed: 7 DI, 6 DO,
   4 AI,1 AO

Utilize MC-Edge to Expand and Grow Your Sensor Networks

The MC-Edge gateway enables exceptional remote monitoring and control capabilities.

MOTOROLA SOLUTIONS

EXPAND REACH WITH WIRELESS BUILT-IN

Expand your operations that currently have no power or communication coverage with MC-Edge, wireless LoRaWAN gateways and servers. MC-Edge is used as a data aggregator with the capability to leverage existing LMR investments or multiple backhaul options for retrieval of LoRa data - and still provide one holistic easy to deploy low-power ecosystem.

ENSURE MISSION-CRITICAL SYSTEM SECURITY

MC-Edge will automatically look for malicious activity or violations of security policies and will only allow legitimate traffic to enter and block other activity. Unauthorized activity is logged and can be reported to a designated control center. AES 256 bit encryption protects sensitive data end-to-end, whether at rest or in transit.
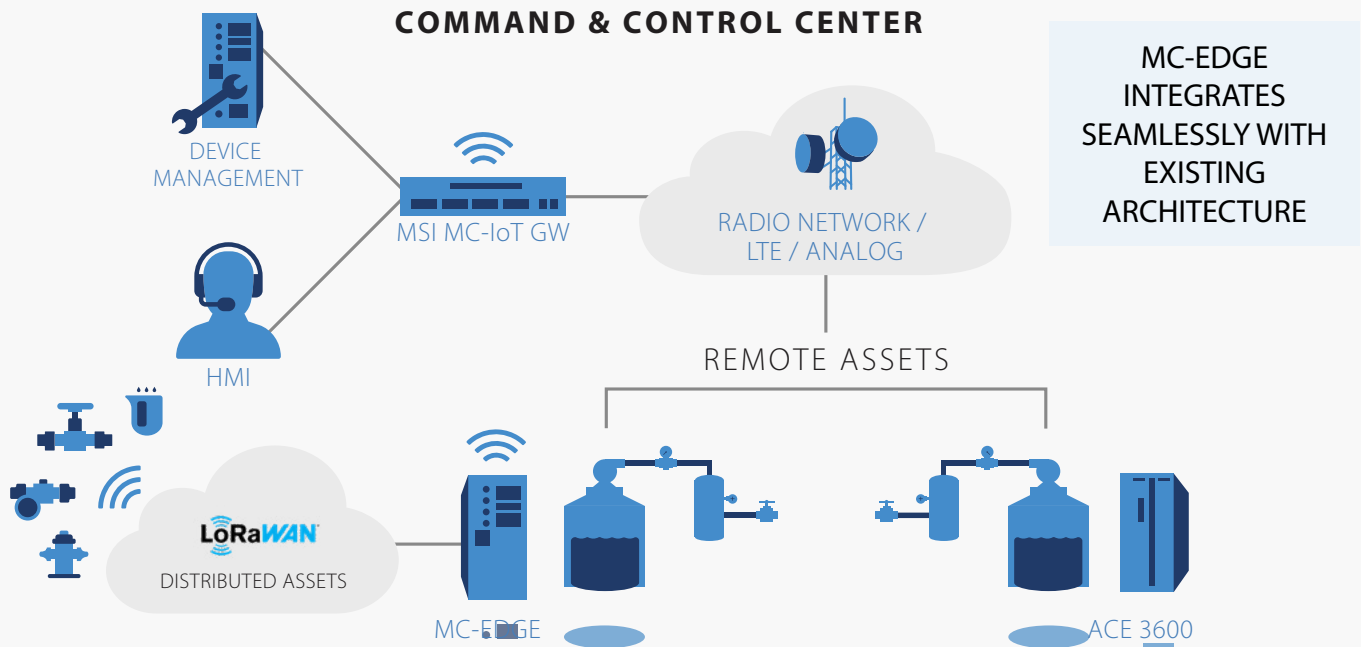
ENHANCE OPERATIONS WITH EDGE COMPUTING

With edge computing, activities such as decision-making, filtering, logging and analytics are handled on the edge, thus increasing your overall network capabilities, responsiveness and efficiency.

AGNOSTIC NETWORK CONNECTIVITY AND REDUNDANCY

MC-Edge utilizes MDLC communication protocol to link distant sites for easy scaling and alternative communication links in case of fallback — eliminating the need for costly custom programming or additional communications infrastructure.

Vertical Operator Solutions — Sirens, Fire Stations, Hazmat, Utilities

Vertical Applications/Services
- Use cases with best-in-class **reliability** and **security** e.g.: Disasters, Critical infrastructure

Network Services — LTE, LMR

Converged IoT Network
- LMR
- LTE
- IoT networks

Edge Services (MC-Edge Gateway) — Mobile WAN (LMR, LTE); Edge Processing (Filtering, Aggregation, Stream Analytics, Custom); Sensor Connectivity (Wired, LoRa); Sensors and Activators

Edge Gateways
- Multi-network
- Edge compute / analysis
- Military grade hardware security

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COMMAND & CONTROL CENTER

DEVICE MANAGEMENT

MSI MC-IoT GW

HMI

RADIO NETWORK / LTE / ANALOG

MC-EDGE INTEGRATES SEAMLESSLY WITH EXISTING ARCHITECTURE

REMOTE ASSETS

LoRaWAN

DISTRIBUTED ASSETS

MC-EDGE

ACE 3600

Motorola Solutions from MCA

MCA provides world-class IT solutions that enhance the quality, safety, and productivity of our customers' operations and lives across the United States. More than 65,000 customers trust MCA to provide wireless communication solutions for a safe, secure, and more efficient workplace.

As your trusted advisor, we reduce the time and effort needed to research, install, and maintain the right solutions to make your workplace better.

MCA offers a carefully researched portfolio of world class voice, data, and video products and solutions. With dozens of product lines and hundreds of solutions, our team of certified professionals throughout the U.S. deliver a full suite of reliable technologies with a service first approach. The MCA advantage is our extensive service portfolio to support the solution life-cycle from start to finish.

Why Partner with MCA?

- Over 30 Years Experience in Communications
- Quality Devices from Top Manufacturing Partners
- Rapid Deployment of Connectivity Solutions
- Fast, Secure, and Reliable Network Performance
- Vastly Improved Workplace Safety & Security

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CONTACT US TODAY TO DEPLOY THE MC-EDGE WITHIN YOUR SCADA COMMUNICATIONS NETWORKS

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