

# KMC Commander: Present benefit. Future value.

IoT promises a lot, but to capitalize on it, you need a platform that's truly open and easily scalable, while meeting the security needs of modern technology. KMC Commander is that platform. It's affordable for simple installations and effortlessly scales to meet the growing demands of your business. Take a look below and see how KMC Commander can help you solve your business's challenges.

- Acceleration Detection
- Alarm Status
- Asset Tracking / Management
- Backup Generator Status
- Battery Backups / Fuel Cells
- Clean Room Monitoring
- CO2 Monitoring
- Compliance / Regulatory Needs
- Data Center Efficiency Monitoring
- Custom Dashboards
- Device Runtime
- Device Status
- Discharge Air Monitoring
- Door Status
- Energy Management
- Energy Meters (Real-time)
- Energy Demand Monitoring
- Establish Energy Usage Baseline
- Facility Management
- FDA Food Storage Requirements
- Fire Control System Monitoring
- Flow Rates (Liquid or Gas)
- Fuel / Gas Levels

- Gas / Chemical Detection
- Grow House / Indoor Ag Controls
- Humidity Control
- HVAC System Integration
- Indoor Air Quality
- Join Disparate Building Systems
- Leak Detection
- Lock Status
- Loss Prevention Tool
- Machine Downtime / Uptime
- Moisture Control
- Noise Level
- Occupancy Monitoring
- Plug Load & Maintenance
- Pressure Metrics (Liquid / Gas)
- Remote Mobile Access / Control
- Proximity / Distance Monitoring
- Pump Monitoring
- Rain Water Collection Monitoring
- Refrigeration Monitoring
- Remote Facility Monitoring
- Security Integrations
- Signage Status

- Signal Reliability Measurement
- Signal Strength Monitoring
- Soil Monitoring
- Solar Power Efficiency
- Storage Capacity
- Sump Pump Monitoring
- Switch Status
- Tank Levels
- Temperature Monitoring
- Tilt Sensor Integration
- Trend Weather Data w/ Energy
- Usage UPS Status
- Valve Status
- Vibration Readings
- Water Detection
- Water Quality Monitoring
- Weight Monitoring
- Wind Power Efficiency
- ... And more!

Learn more and see who's using our IoT platform at [KMCCommander.com](http://KMCCommander.com)



**Project Haystack**  
Associate Member

KMC is a proud member of these collaborative initiatives working together to standardize and streamline the sharing of data for IoT.

**EDGE X FOUNDRY™**  
Founding Member

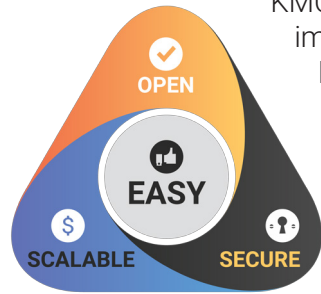


## KMC Commander™ IoT and Automation Platform

Relevant Data, Real Time, To Any Device



## Relevant Data, Real Time: The Internet of Things is here.



KMC Commander is an IoT platform designed to help businesses affordably solve immediate problems while providing a long-term solution for their IoT strategy. In its most basic form, KMC Commander helps to optimize energy usage, increase operational efficiency, maximize occupant comfort, and ensure a safe environment. By utilizing common protocols for sensors, devices, controllers, and building systems, KMC Commander collects data using an on-premise gateway and sends that data to the cloud. It then tracks, trends, and triggers that data based on user preference, all while making the data available on any device with an internet connection. It does all this securely, while providing an optimized, open platform on which to build.

## Open & Scalable Platform: From a single device to a portfolio of buildings.

Commander is an affordable solution for basic projects and easily scales to multiple locations when needed.

### Open Device Protocols

KMC Commander communicates over these common protocols:

- BACnet IP
- BACnet MS/TP

Coming soon:

- Modbus
- MQTT
- SNMP
- And more

### Unmatched Scalability

KMC Commander is an affordable solution for monitoring a single asset and can easily expand across multiple properties at the enterprise level. Whether you're aggregating data for a number of remote buildings or ensuring energy efficiency for a multi-building campus, KMC Commander scales to meet the needs of each project.

### Dashboard Features

Using HTML5, KMC Commander makes it easy to monitor your IoT network. Be it on your desktop, tablet, or smartphone, the modern UI scales to fit your device, showing your data real-time. By displaying key metrics on individual cards and dashboard elements, KMC Commander always shows relevant data natively.

## Key Features:

- Track, trend, and trigger your IoT data
- Multiple device protocols are supported
- Easily set up alarms and notifications
- KMC Commander BX is built on the Dell Edge Gateway series with Intel Inside
- Cellular capability is optional
- Cloud service is powered by AWS
- Open API is available
- Over a dozen cybersecurity features built in
- Enjoy a simple, clean, responsive HTML5 UI
- Set up users with different permissions

## KMC Commander BX: Your IoT platform gateway.

Built on Dell, the KMC Commander BX is the connection between your IoT network and the cloud. It's constructed to withstand harsh environments and connects directly to a number of port types, adapting to your architecture.

Features and options:

- Ethernet & RS-485
- Wi-Fi (WAP or Client)
- Cellular
- USB & HDMI
- DIN or Panel Mount



## Security: Built-in and prioritized.

KMC Commander uses leading technology and best practices to ensure your IoT platform is secure.

### Ubuntu Snappy OS:

From limited user and program permissions to the ability to secure boot, Ubuntu provides a secure foundation.

**Whitelisting:** If you haven't explicitly authorized an IP connection, a physical port, or a process, the hardware and software won't allow it.

**Push Communication:** To servers or devices, KMC Commander initiates all communication links.

**Data Encryption:** Data is encrypted at the box and cloud levels, and communicated over SSL/TLS.

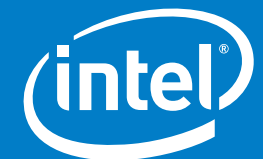
**Cloud-Only Interface:** Remote user interaction with KMC Commander is limited at the cloud level, isolating the physical layer.

**Custom User Permissions:** Easily customize the levels and groups of users for your platform, limiting the most sensitive interactions to the most appropriate people.

**No Back Doors:** There are no back doors built into KMC Commander installations, eliminating the threat of compromise-by-design.

**Trusted Platform Module (TPM):** Encryption keys are stored on a separate chip in the gateway apart from the primary storage & memory.

**No Data Masking or Obfuscation:** By using best security practices, we choose not to use "security through obscurity."



As we set out to develop the KMC Commander IoT platform, we knew we needed partners who understood the vision and potential of IoT. That's why KMC partnered with tech leaders Intel and Dell. As a member of Intel and Dell's IoT Alliances and with a representative on Intel's North American Board of Advisors, these relationships help shape the features of KMC Commander and the breadth and depth of its benefits and use cases.