

INTRODUCING KMC Fusion™

Combining Power and Flexibility

powered by

niagara
framework®



One device, endless applications

On-board I/O	✓	FCU	✓
Expandable I/O	✓	AHU	✓
BACnet	✓	RTU	✓
SSL/TLS	✓	Pumps	✓
Niagara 4	✓	Chillers	✓
Web server	✓	Boilers	✓
Sensor options	✓	Lighting	✓

KMC Fusion is an open, secure, and scalable building automation controller that delivers unmatched power and flexibility for managing high-value, mission-critical equipment. It enables precise control, real-time responsiveness, and seamless integration with both legacy and modern systems—making it the ideal platform for intelligent building management now and into the future.

✓ OPEN

- Built on the *Niagara4 Framework*
- HTML5 web-based UI with embedded charting and reporting for data visualization
- Open *Niagara Information and Conformance Statement* (NICS)
- Fully programmable, universal I/O with supervised Hand-Off-Auto capability
- IoT *Edge* device with optional cloud-based processing
 - KMC Commander® market-ready product

🔒 SECURE

- Secure *Linux* OS with full disk encryption and *Secure Boot*
- Data encryption provided both at rest and in-transit via public key infrastructure (PKI)
- Embedded audit, system and security logging
- Multi-tier, role-based user authentication with options for MFA, IdP and SSO

💰 SCALABLE

- Optimized for secondary equipment and expandable for primary equipment control
- Flexible, no SMA based *Niagara Edge* license with point and integration expansion options
- 18 points of on-board I/O and expandable to 82 points with remote modules



Contact us to learn more

Equipment Control

KMC Fusion is designed to **operate primary and secondary equipment** within a building control system. These devices include, but are not limited to: **air handling units (AHU), chillers and boilers plants, cooling towers, pump control**, lighting control systems, fan coil units (FCU), heat pump units (HPU), rooftop units (RTU), unit ventilators (UV), and other heating ventilation air conditioning (HVAC) systems.

Native Niagara

KMC Fusion devices run on the **Niagara 4 framework** providing several key features such as data logging, alarming, scheduling, web and visualization interfaces. The device allows **Wiresheet-based programming** from Tridium's *Niagara Workbench* application and communicates *Niagara's* device communication protocol (*FOX*), which is a **secure SSL/TLS** communication between devices. Using KMC Fusion in existing *Niagara*-based building control systems **provides seamless integration and allows a cohesive end-user experience**.

Optimized Licensing

KMC Fusion's robust IO capabilities make it **versatile** for various applications. KMC Fusion is licensed to **optimize** small-scale secondary equipment and can be **expanded** to handle larger primary equipment. This license model allows for a lower cost to contractors for smaller applications and still provides a powerful operating system and control features. As a licensed *Niagara Edge* device, KMC Fusion counts as a one-tenth *Niagara*-network load for supervisor integrations.

Specifications

Platform

- 1.6 GHz quad-core *NXP IMX8M+* processor
- 1 GB LPDDR4 RAM
- 8 GB onboard eMMC storage
- *Carrier Grade* (telecommunications) *Linux OS*
- Full disk encryption
- *Secure Boot*
- Real-time clock

Hardware

- 24 VAC/VDC power
- (2) 10/100 MB Ethernet ports
- (8) Universal inputs
- (8) Universal outputs
- Sensor port connection
 - (1) Communicating zone sensor OR
 - (2) Hardwired room sensor inputs
- USB-C port
- CANbus expansion network

Software

- *Niagara4 Edge* device
 - No SMA required
 - 1/10 network load
- Native *Niagara* Controller
 - *Wiresheet* programming
 - Alarm management
 - Trend logging
 - Responsive web UI

Conformance Ratings:

- *FCC*
- *UL*

