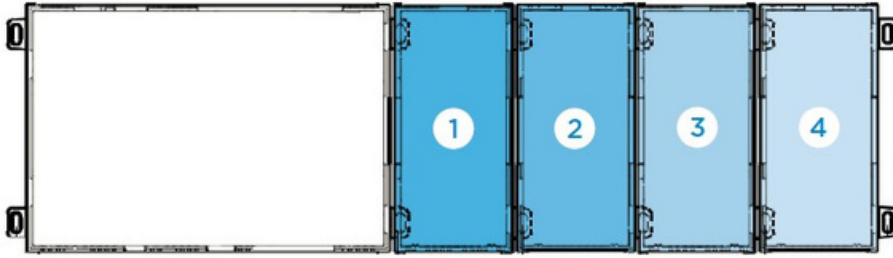## Data Sheet

DCM 8000 Controller

Specifications

TI AM3352: 1000MHz Arm® Cortex®-A8
1GB DDR3 SDRAM
Removable micro-SD card with 4GB
flash total storage/2GB user storage
Wi-Fi (Client or WAP)*
IEEE802.11a/b/g/n
IEEE802.11n HT20 @ 2.4GHz
IEEE802.11n HT20/HT40 @ 5GHz
Configurable radio (Off, WAP, or Client)
WPAPSK/WPA2PSK supported
USB type A connector*
Back-up and restore support
(2) isolated RS-485 with selectable bias
and termination
(2) 10/100MB Ethernet ports
Secure boot
Supply requirements: 24VAC rated at
24VA minimum, or 24VDC rated at 1A
(24W) minimum**
Runs Niagara AX: 3.8u1 and later
Runs Niagara 4: 4.1 and later
Niagara Analytics 1.1 requires Niagara
AX 3.8u1 or later update builds
Niagara Analytics 2.0 requires Niagara
4.2 and later
Real-time clock
Batteryless

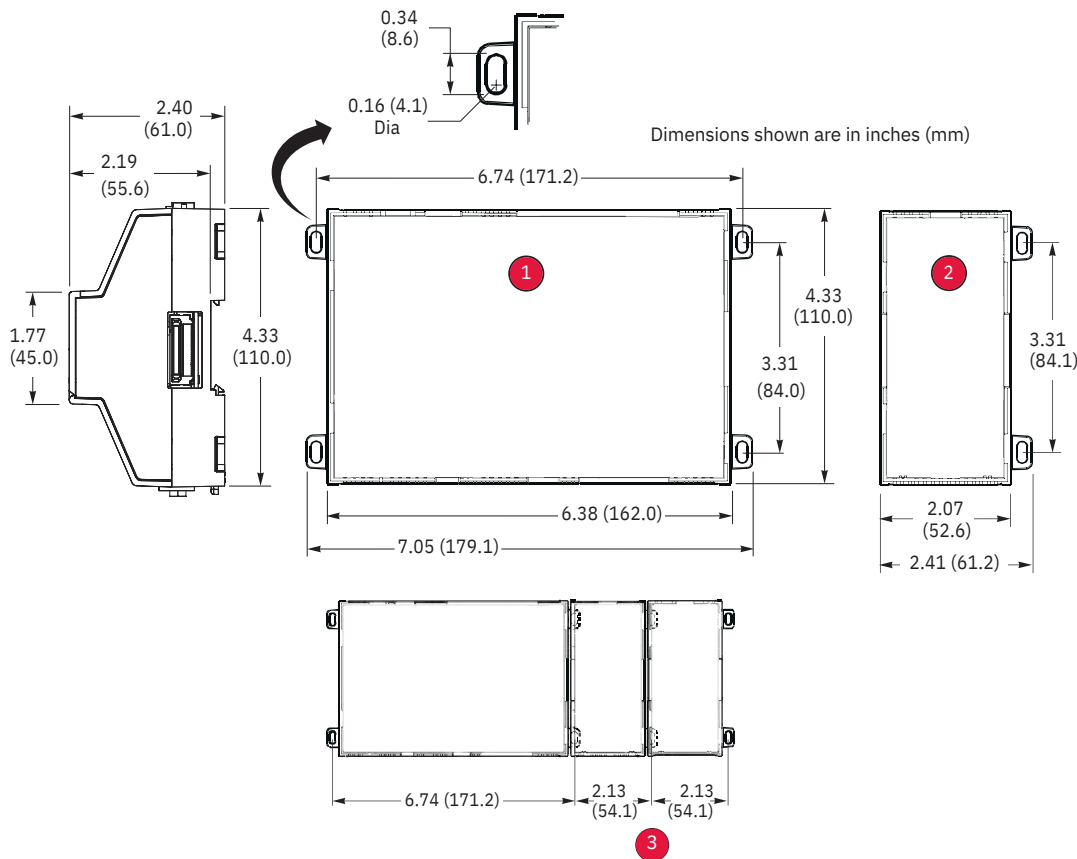** Niagara Enterprise Security requires 4 hours of
standby power

Description

The DCM 8000 is a compact, embedded Niagara Framework®-based controller and server platform for connecting multiple and diverse devices and sub-systems.

With internet connectivity and web-serving capability, the DCM 8000 controller provides integrated control, supervision, data logging, alarming, scheduling and network management. It streams data and rich graphical displays to a standard web browser via an ethernet or wireless LAN, or remotely over the internet.

The licensing model for the DCM 8000 controller features standard drivers along with optional IO and field bus expansion modules for ultimate flexibility and expandability.

The DCM 8000 controller is optimized for the Niagara 4 platform. In larger facilities, multi-building applications and large-scale control system integrations, Niagara 4 Supervisors can be used with DCM 8000 controllers to aggregate information, including alarms, and historical and real-time data, to create a single, unified application.

Expansion Module and IO Configurations

Maximum Combinations

Expansion 1	Expansion 2	Expansion 3	Expansion 4
232 or LON	232 or LON	232 or LON	232 or LON
485 x 2	232 or LON	232 or LON	232 or LON
485 x 2	485 x 2	232 or LON	
485 x 2	485 x 2		

DCM 8000 Controller Mounting and Dimensions

Dimensions shown are in inches (mm)

1. DCM 8000 controller. Allow at least 1.5" (38mm) clearance around all sides and minimum 3" (76mm) at bottom for Wi-Fi antenna.
2. Expansion module. Up to four (4) may be used. See "Expansion Module and IO Configurations".
3. Distance between center of tabs from one unit to another unit.

Specifications

Environmental Specifications

Operating temperature: -20 to 60°C (-4 to 140°F)

Storage temperature: -40 to 85°C (-40 to 185°F)

Humidity: 5 to 95%, non-condensing

Shipping & vibration: ASTM D4169, Assurance Level II

MTTF: 10 years+

Agency Certifications

UL 916

CE EN 61326-1

RCM

FCC Part 15 Subpart B, Class B

FCC Part 15 Subpart C

C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Signal Equipment"

1999/5/EC R&TTE Directive

CCC

SRRC

RSS

RoHS

SCAN ME