



- Compact, Cost-Effective Input Monitoring Controller
- Powerful, Flexible System Controller for the Most Demanding Applications
- Ideal for Monitoring Small or Large Groups of Inputs in a Concentrated Area
- Universal Inputs Can be Configured as a Supervised Input for Monitoring Open Wires or Short Circuits
- Non-Volatile Flash Memory Provides Utmost Reliability — Stores Both Application Program and Operating System
- Local, Extended Storage of Log Data
- Local, On-Board Service Port

# Infinet II

## i2600 Series Local Controllers

The i2600 Series controllers are designed for monitoring a small or large concentration of input points from a single controller. Choose the i2600 model with the input configuration that matches your application:

- The **i2608**, with eight universal inputs, is designed for stand-alone equipment monitoring for a small concentration of input points. This controller is also configurable for supervised input monitoring to determine broken wire detection or shorts. The i2608 is ideal for security applications (motion detection, glass break detection, intrusion detection) or traditional control applications (e.g. temperature, humidity).
- The **i2624** provides the same functionality as the i2608 and in the same small footprint of the i2608, but with three times the number of input points (24) for monitoring various device signals. With the small footprint and high point count, the i2624 is ideal for large concentration of inputs, reducing the number of controllers required in the system, and decreasing cost, complexity, and maintenance requirements.

The i2600 Series also features Flash memory, increased user memory, and a fast (32-bit) processor for faster scan times, with plenty of memory available for data logging of your critical data.

The i2600 Series communicates with the entire Andover Continuum Infinet RS-485 field bus (i.e. both Andover Infinet and Andover Infinet II controllers) and is compatible with the Continuum CyberStation front-end. Up to 254 Andover Infinet devices can be networked to any Andover Continuum network controller.

### INCREASED RELIABILITY WITH FLASH MEMORY

The i2600's non-volatile Flash memory stores your operating system and application programs, so that in the event of a power loss, your application will be restored when power is returned. In addition, the Flash memory allows for easy upgrades of your operating system via software downloads, eliminating the need to swap out proms. The i2600 Series controllers include an on-board battery to safeguard your runtime data — protecting all point data and log data from being lost if power is removed.

### INPUTS

The input configuration on the i2600 Series consists of eight (or twenty-four) full range, 10-bit universal inputs that accept voltage (0-5VDC), digital (on/off), counter signals (up to 4Hz), temperature signals, or supervised alarm circuits for security applications or broken wire detection.



# i2600 Series Local Controllers

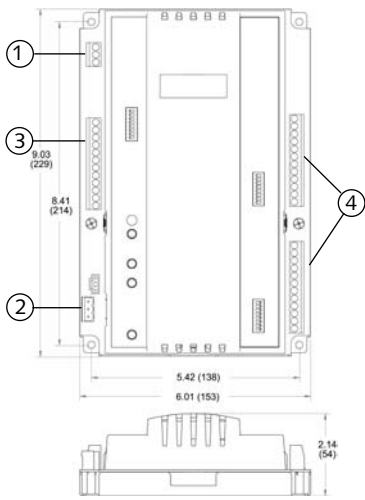
## SOFTWARE CAPABILITIES

The dynamic memory of a i2600 controller can be allocated for any combination of programs, scheduling, alarming, and data logging using the powerful Andover Continuum Plain English programming language. Our object-oriented Plain English language with intuitive keywords provides an easy method to tailor the controller to meet your exact requirements. Programs are entered into the i2600 using the Continuum CyberStation. Programs are then stored and executed by the i2600 controllers.

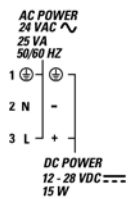
Programming multiple i2600 Series controllers is inherently easy with Plain English. A complete copy of one i2600 controller's programs can be loaded directly into other i2600 controllers without changing any point names or programs.

## OPTIONAL WIRELESS INFINET

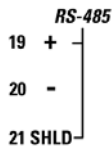
The i2600 Infinet controllers can also communicate using a wireless mesh network. Simply plug Andover Continuum Wireless Adapters into the service ports of these controllers with wireless compatible firmware to create a wireless mesh network that sends and receives Infinet messages.



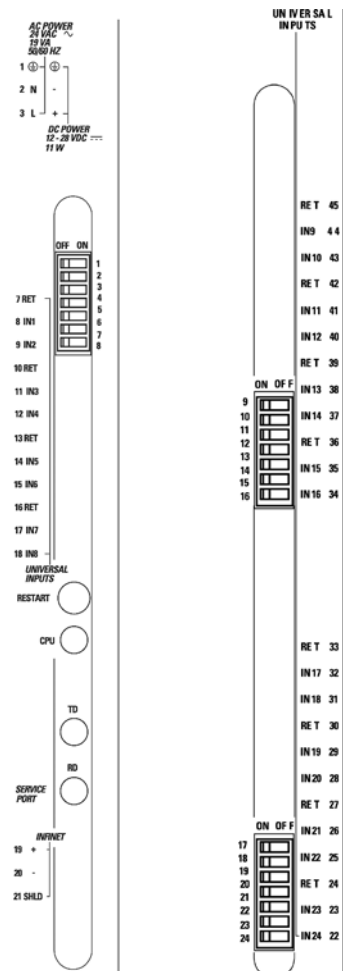
Dimensional Drawing



① Power Drawing



② Communications Drawing



③ i2608 and i2624

④ i2624

Inputs Drawings

# SPECIFICATIONS

## i2600 Series Local Controllers

### ELECTRICAL

#### Power

24VAC, 12-24VDC - auto sensing,  
+10% -15%, 50/60 Hz

#### Power Consumption

25 VA

#### Overload Protection

Fused with 3 amp fuse. MOV protected

#### Software Real-Time Clock

Synchronized through Andover Infinet by network controller

### MECHANICAL

#### Operating Environment

32°–120°F (0–49°C), 10–95% RH  
(non-condensing)

#### Size

9.03"H x 6.01"W x 2.14"D  
(229 H x 153 W x 54 D) mm

#### Weight

1.19 lbs. (.54 kg)

#### Enclosure Type

UL Open class, IP 10. Flammability rating of UL94-5V

#### Mounting

Panel mount

### BATTERY

#### Battery Backup

Replaceable, non-rechargeable, lithium battery. Provides 5 years typical accumulated power failure backup of RAM memory

### COMMUNICATIONS

#### Communications Interface

Through Andover Infinet RS-485 field bus to network controller

#### Communications Speed

1200 to 19.2K baud

#### Bus Length

4,000 ft. (1,220m) standard for Andover Infinet, i2 Infilink module allows extension to longer distances and is required after every group of 32 units on the network.

#### Bus Media

Andover Infinet: twisted, shielded pair, low capacitance cable

#### RS-485 port for implementing Wireless Infinet II connection, including:

Standard service port, four-position shrouded connector

#### Comm. Error Checking

International Standard CRC 16

#### Compatibility

Continuum CyberStation Version 1.5 or greater

### INPUTS

#### Inputs

i2608: 8 Universal inputs  
i2624: 24 Universal inputs  
Voltage (0-5.115 VDC); Temperature -30°F to 230°F (-34°C to 110°C), Digital (on/off), Counter (up to 4Hz at 50% duty cycle, 125 ms min. pulse width). Supervised Alarm (single or double resistor). Current input (0 - 20 mA) using external 250 ohm resistor

#### Input Voltage Range

0-5.115 volts DC

#### Input Impedance

10K ohm to 5.120V or 5M ohm with pull-up resistor disabled

#### Input Resolution

5.0 mV

#### Input Accuracy

±15mV (±0.56°C from -23°C to +66°C or ±1°F from -10°F to +150°F)

### CONNECTIONS

#### Power

3-position fixed screw terminal connector

#### Inputs

Inputs 1-8 (both i2608 and i2624):  
12-position fixed screw terminal connector

i2624 only:

Inputs 9-16: 12-position fixed screw terminal connector

Inputs 17-24: 12-position fixed screw terminal connector

#### Communications

3-position removable screw terminal connector

#### Service Port

4-position shrouded connector

### USER LEDS/SWITCHES

#### Status Indicator LEDS:

CPU CPU Active  
TD Transmit Data  
RD Receive Data

#### Switches

RESET  
Input Pull-up Resistor Switch (per input)

### GENERAL

#### Memory

128K SRAM, 1MB FLASH

#### Processor

Motorola 32-bit Coldfire

### AGENCY LISTINGS

UL/CUL 916, FCC CFR 47 Part 15, ICES-003, EN55022, AS/NZS 3548, Class A, CE

### OPTIONS

UL864, Smoke Control System Equipment, UUKL (i2608-S, i2624-S)

### MODELS

#### i2608

Infinet II i2608 Local Controller

#### i2608-S

Infinet II i2608 Local Controller with Smoke-Control option

#### i2608-WL

Wireless Infinet II i2608 Local Controller

#### i2624

Infinet II i2624 Local Controller

#### i2624-S

Infinet II i2624 Local Controller with Smoke-Control option

#### i2624-WL

Wireless Infinet II i2624 Local Controller

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