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**Россия** +7(495)268-04-70

**Казахстан** +7(7172)727-132

**Киргизия** +996(312)96-26-47

сайт: [www.honeywell.nt-rt.ru](http://www.honeywell.nt-rt.ru) || эл. почта: [hwn@nt-rt.ru](mailto:hwn@nt-rt.ru)

# МОДУЛИ ДЛЯ ПЕРЕДАЧИ ДАННЫХ

## Технические характеристики

### СРО-DIO



# ComfortPoint Open CPO-DIO (DIGITAL I/O CONTROLLER)

DATA SHEET

## Trademark Information

ComfortPoint™ Open is a trademark of Honeywell International Inc.

BACnet® is a registered trademark of ASHRAE Inc. UL Logo, FCC statement, and the CE Mark Logo are used to indicate product compliance and/or conformance to those standards. These Logo/Marks are trademarks of the respective agencies.

## GENERAL

- CPO-DIO modules are supported for all CPO plant controllers.
- Outstanding performance with 32-bit technology.
- Built-in Real Time Clock.
- CPO-DIO is based on B-AAC BACnet profile.
- Connects to RS-485 CP-IO bus of supported plant controllers.
- Fully integrated with ComfortPoint Open Manager (CPOM) as IO device and BACnet controller integrated under plant controller (CPO-PC-6A, CP-IPC).
- Fully integrated with Enterprise Building Integrator (EBI) for the existing EBI system with ComfortPoint Open (CPO) subsystems, the DIOs are considered as BACnet controller and also as IO devices.
- Flexible and easy configuration with ComfortPoint Open Studio.

### Attention



Due to Product renovation & technology upgrade, the specifications given in this data sheet maybe subject to change. Please contact your regional product management for current updates.

## FEATURES

### Onboard Inputs and Outputs

CPO-DIO comes with 8 UI, 8 DI and 16 DO (triacs) I/O which can be used as an expansion I/O board by connecting it to the supported plant controllers on the same RS485 bus.

### Scalable and Powerful

Designed with 32-bit processor and built in Real Time Clock, the system can be expanded from a small to a large Integrated Building Management System.

### Programming and Configuration

ComfortPoint Open Studio enables users to add/delete/modify I/O assignments when used as an expansion I/O board.

### Flexible mounting options

DIN-rail / Wall mounting.

## CPO-DIO FRONT VIEW



# SPECIFICATIONS

## Electrical Data

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### Operating Voltage

- 24 VAC  $\pm$  20%

### Power Consumption

- 15 VA

### Housing Material

- ABS Plastic

### Mounting

- DIN rail
- Wall mounting

### Protection Class

- IP20

### CPU

- Processor: Kinetis K10, 32-bit, ARM Cortex-M4

### Real Time Clock

- Built-in Real Time Clock

### Memory

- 1 MB Flash
- 96 KB RAM
- Battery backup: Data backup upto 72 hours

## Integrated I/Os

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### Input: 16 (8UI+8DI)

- 8 Universal Input
  - NTC 20K (-50 °C to +150 °C)
  - PT1000 (-50 °C to +150 °C)
  - 0 (2) to +10 VDC
  - 0 (4) to 20 mA (with an external resistor of 499  $\Omega$   $\pm$  0.25%)
  - Potential Free Contact as Digital Input
- 8 Digital Input
  - DC signal (max. 30 VDC)
  - Potential free contact
  - Can be used as pulse inputs for metering purpose (15Hz max)

### Output: 16 Digital Output (Triac Outputs)

- Maximum voltage: 24 VAC

- Maximum continuous current: 500 mA
- Minimum current: 30 mA

### MTBF ( Mean Time Between Failure ) Data

- 100000 Hours or 11.4 Years

## Environmental

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### Temperature

- Operation: 0~50 °C
- Storage: -20 ~ +70 °C

### Ambient Humidity (operation and storage)

- 5 to 93% relative humidity, non-condensing

### Certifications

- BACnet B-AAC
- CE - EMC Directive 2004/108/EC (product standards EN 60730, EN 61326, and EN 61000)
- UL 916
- FCC Part15, SubpartB, Class B

### Models

- CPO-DIO: 32 point on board I/O

## Hardware Interfaces

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### MSTP Port 1

- Supports 9.6, 19.2, 38.4 and 76.8 Kbps
- Connects to MSTP network with max 30 BACnet devices per network
- 3 x screw terminal, removable

### RS485 Port

- Allows connecting ComfortPoint Open plant controllers and other Expansion IO Boards.

### Mode Selector Switch

CPO-DIO can be operated in two modes:

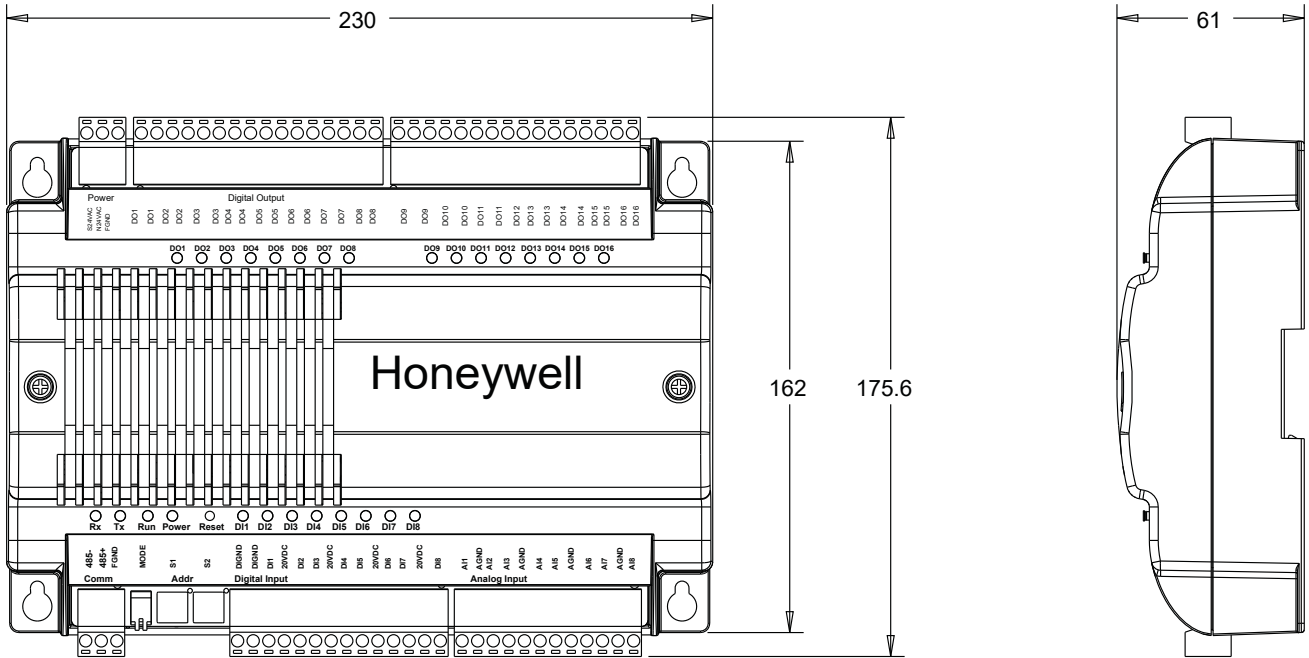
- Expansion I/O module: To configure as Expansion I/O module, set the Mode Switch Pin 2 to ON.
- BACnet MSTP controller: To configure as BACnet MSTP controller, set the Mode Switch Pin 2 to OFF.  
**Note:** To enable the end of line resistor when used as an BACnet MSTP controller and IO board, set Pin 1 to ON.

### Controller Addressing

- Two rotary Hex switches are used to set the module number or MAC address (depending on the mode selection).

# DIMENSION

All dimensions mentioned in the following figure are in mm.



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