

JENE-PC Series I/O Modules

JM34-160810, JM16-080404 & J-T-IO-16-485

PRODUCT DATA SHEET



Overview

The JENESys® JENE-PC series I/O modules are part of the JENESys® branded Internet based automation technology and device to enterprise integration solutions for Building Automation, Energy Management, Security, Equipment Control, and Specialty applications.

The JENE-PC series I/O modules are compact direct I/O modules with fast, reliable, direct inputs and outputs specifically designed to expand the monitoring and control capabilities of a JENE-PC series controller. The JM16-080404 and JM34-160810 modules connect directly to JENE-PC series controller and the J-T-IO-16-485 module connects directly to a JENE-PC7000 series controller, or may be distributed closer to the equipment that is being controlled and monitored by any JENE-PC series controller, reducing installation costs.

Each JENE-PC series I/O module contains Universal Inputs used to monitor pulse contacts from power/demand meters, analog sensors, or transducers, Digital Outputs used to control energy consuming devices such as fans, lights, or pumps with digital relay outputs, and Analog Outputs to proportionally control dampers, valves, and other analog devices.

Inputs and Outputs

- Universal Inputs compatible with 0-10 Vdc, 4-20 mA, dry contacts, pulsing dry contacts, 0-100K ohm resistive, Type 3 thermistor temperature sensors or other thermistor ranges utilizing the Lookup table available when configuring the Universal Input in JENESys® ProBuilder.
- Analog Outputs can supply a maximum of 4 mA over the entire 0-10Vdc range.
- Digital Outputs are form "A" (SPST) relay outputs rated at 24 Vac or Vdc at 0.5A

Features

- Modular design meets the need of any sized equipment by allowing many combinations of I/O needed to fulfill the project's requirements.
- Din Rail or screw mountable for quick installation.
- An LED status indicator for each Digital Output, power status, and I/O board status is located on the board, and also visible through the cover.
- The JM34-160810 and JM16-080404 I/O modules connect directly to a JENE-PC series controller utilizing a 20-pin connector.
- The J-T-IO-16-485 remote 16 I/O module may be directly connected to a JENE-PC7000 series or located up to 4,000 ft. from any JENE-PC series controller, reducing wiring and installation costs for remote device monitoring and control.
- JM34-160810 I/O module contains a 24Vac/dc power input that provides power for the whole unit making this package ideal for equipment control and monitoring applications.



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Specifications



JM34-160810



JM16-080404



J-T-IO-16-485

POINT COUNT

Universal Inputs	16	8	8
Analog Outputs	8	4	4
Relay Outputs	10	4	4

POWER

Voltage	Dedicated Class 2, 24 Vac transformer, or a 24Vdc power source	Powered through 20 pin connector from JENE-PC series controller	External 15Vdc power supply or direct connect with a JENE-PC-PWR-UN
Protection	Internally fused (not field replaceable)	N/A	N/A
Maximum Connection	20mA	N/A	N/A

CHASSIS

Construction	Base: Plastic, DIN rail or screw mount options Cover: Plastic	Base: Plastic, DIN rail or screw mount options Cover: Plastic	Base: Plastic, DIN rail or screw mount options Cover: Plastic
Cooling	Internal air convection	Internal air convection	Internal air convection
Dimensions	6.8" (172.7mm) W x 4.0" (101.6mm) H x 2.44" (62mm) D	3.62" (92mm) W x 4.0" (101.6mm) H x 2.44" (62mm) D	3.62" (92mm) W x 4.0" (101.6mm) H x 2.44" (62mm) D

ENVIRONMENT

Operating Temperature Range	0 to 50°C (32 to 122°F)	0 to 50°C (32 to 122°F)	0 to 50°C (32 to 122°F)
Storage Temperature	0 to 60°C (32 to 144°F)	0 to 60°C (32 to 144°F)	0 to 60°C (32 to 144°F)
Relative Humidity Range	5 to 95 %RH, non-condensing	5 to 95 %RH, non-condensing	5 to 95 %RH, non-condensing

AGENCY LISTINGS

Compliance	CE, UL 916, C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Single Equipment", FCC part 15 Class A,	CE, UL 916, C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Single Equipment", FCC part 15 Class A	CE, UL 916, C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Single Equipment", FCC part 15 Class A
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JENE-PC SERIES CONTROLLER COMPATIBILITY

JO-PC3-MC	Max 1 per controller	Max 2 with JM34-160810 Max 4 without JM34-160810	Max 16
JENE-PC3000e	Max 1 per controller	Max 2 with JM34-160810 Max 4 without JM34-160810	Max 16
JENE-PC6000e	Max 1 per controller	Max 2 with JM34-160810 Max 4 without JM34-160810	Max 16
JENE-PC7000	N/A	N/A	Max 16

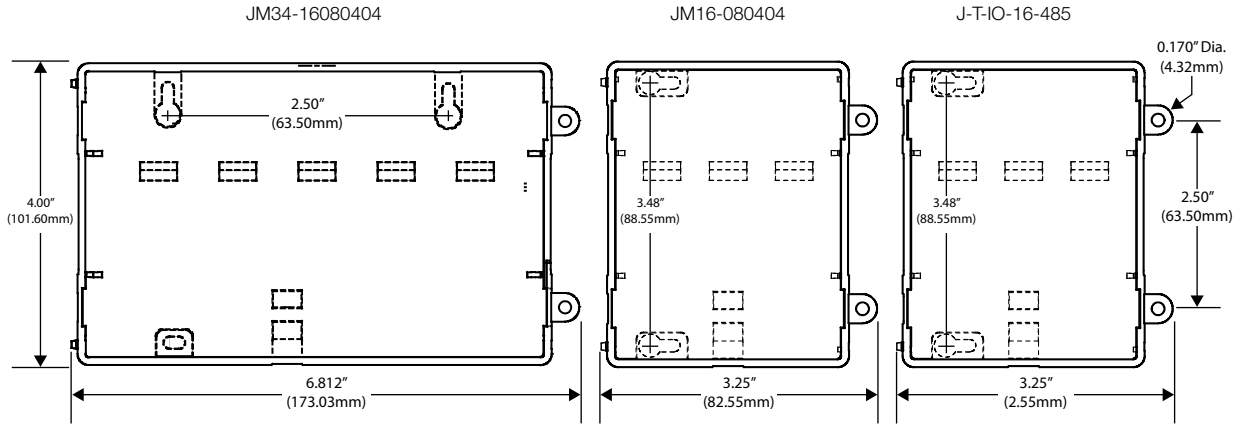
The JM34-160810 can be powered by wiring it to a dedicated Class 2, 24V transformer, or to a 24Vdc power source. The JM34-160810 provides power to the attached JENE-PC series controller and up to two attached JM16-080404 modules (if used).

Up to four JM16-080404 modules may be added to a JENE-PC series controller to provide a total of 32 Universal inputs, 16 Analog Outputs and 16 Digital Outputs. One JM34-160810 module may be added to a JENE-PC series controller to provide 16 Universal Inputs, 8 Analog Outputs, and 10 Digital Outputs. However, two JM16-080404 may be added in conjunction with a JM34-160810 module to provide a total of 32 Universal Inputs, 16 Analog Outputs, and 18 Digital Outputs. Up to sixteen J-T-IO-16-485 remote modules may be added to a JENE-PC series controller to provide a total of 128 Universal Inputs, 64 Analog Outputs, and 64 Digital Outputs.

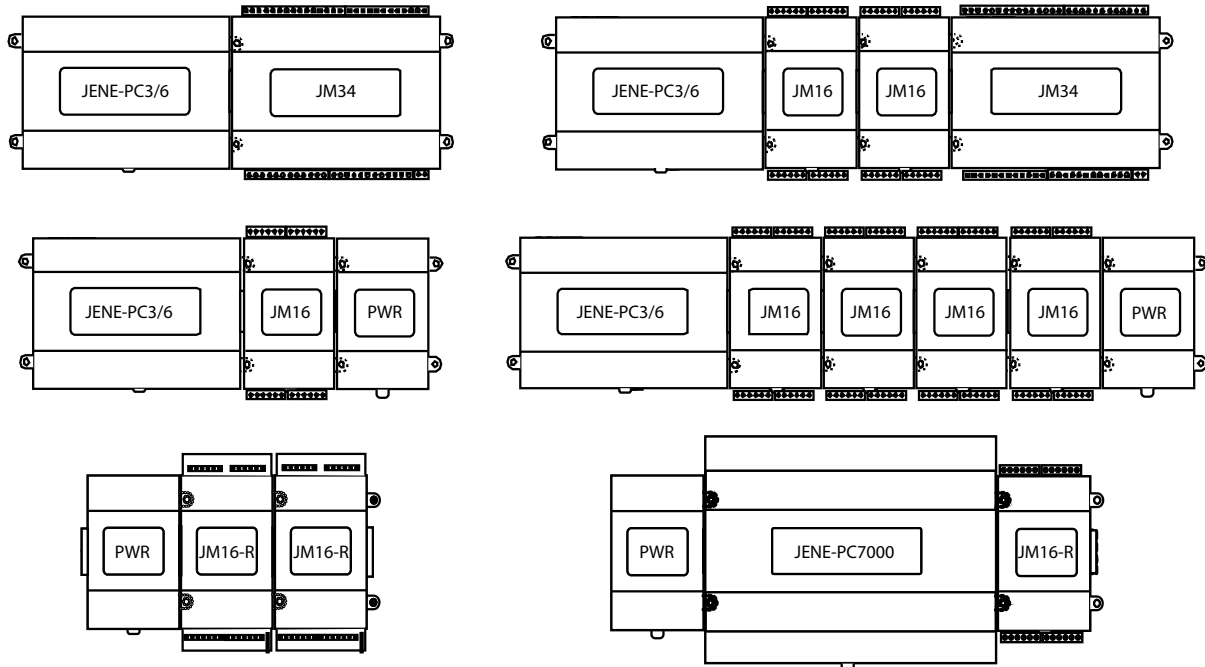
JENE-PC SERIES I/O MODULES

JM34-160810, JM16-080404 & J-T-IO-16-485

Dimensions



Controller and I/O Configurations



Ordering Information

JENE-PC SERIES

PART NUMBER	PART DESCRIPTION
JM34-160810	JENE-PC series 34 point I/O module with 16 Universal Inputs, 8 Analog Outputs, and 10 Digital Outputs.
JM16-080404	JENE-PC series 16 point I/O module with 8 Universal Inputs, 4 Analog Outputs, and 4 Digital Outputs.
J-T-IO-16-485	JENE-PC series 16 point remote I/O module with 8 Universal Inputs, 4 Analog Outputs, and 4 Digital Outputs.

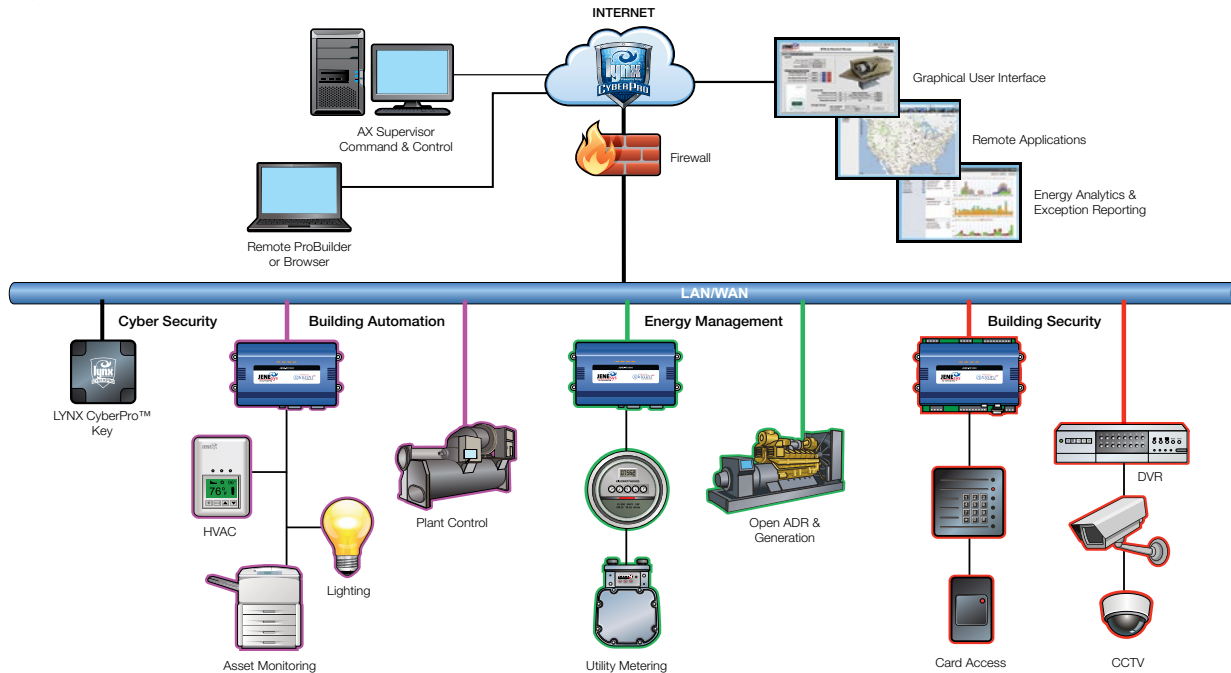
POWER SUPPLY OPTIONS (USED ONLY WHEN A JM34-160810 34 POINT I/O MODULE IS NOT PRESENT)

PART NUMBER	PART DESCRIPTION
JENE-PC-PWR	JENE-PC series DIN-mountable power supply; 24 Vac/dc input, 15Vdc at 30W output.
JENE-PC-PWR-UN	JENE-PC series DIN-mountable power supply; Universal 90–263 Vac input, 15Vdc at 30W output.

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JENESys® Platform



The JENESys® platform (building operating system) is an open, unified, operational and informational system that combines equipment and device connectivity, integration and interoperability, supervision and control, energy management, visualization and actionable information (data & analytics) into a single, integrated architecture within a cyber-secured environment. JENESys® is scalable and allows organizations to continually build off the same network deployment and add additional applications as desired.

The deployment of JENESys® hardware and software is the method by which building automation is expertly configured to a client's best needs. JENESys® enables users to deploy optimal energy and facility operational strategies, capitalize on accurate and concise intelligence relating to the performance of their facilities, reduce energy consumption and costs, gain knowledge of individual usage and trends related to their building systems and equipment from one source, all within a cloud or hosted environment.

- Choice – eliminates building managers and owners from being held captive to proprietary, closed technologies
- Enables multi-vendor integration and interoperability between devices from different manufacturers and disparate systems
- Flexibility/Options – allows facility managers, operators and owners to purchase different products from different manufacturers and choose the solutions that best fit their specific needs
- Simplifies facility operations – users can manage all of their diverse systems via a single, easy-to-use, web-based interface
- Combines the capabilities of network management, protocol conversion, distributed control, and the user interface into a single software solution that can operate on a wide range of hardware platforms from the very small to the very large
- API's are available to enable independent third parties to develop complementary, enterprise applications that can work effectively with the system
- Data from the system is easily stored and retrieved from a common database and can be used throughout the system
- Future Expansion – offers support for a wide range of applications and the scalability to easily add future service and product upgrades
- Building managers and operators can continue to work with the products and vendors they trust, while gaining all the benefits of an integrated and interoperable system
- Provides operational efficiencies that reduce business risk
- Makes it easier to control and manage buildings and realize facility operational efficiencies, ensure occupant comfort and code compliances
- Reduces system complexity and costs. Maximizes lifetime value of building systems and equipment
- One platform that can be supported by whatever vendor or vendors a building owner, operator or facility manager chooses

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