

DATA SHEET

Form 1239-000928

Description

The Opto 22 SNAP-IT™ family of products gives you a packaged solution to bring industry-standard SNAP Ethernet I/O technology into your company, faster and easier than ever before.

With SNAP-IT, you get a sturdy housing with a SNAP Ethernet brain, an 8-module mounting rack, and a power supply, all built in and already wired. All you add are the analog, digital, and serial input/output modules you need for your specific application. Just snap the modules into the rack, wire them to your devices, and configure the I/O points using the built-in Web server, and you're ready to monitor or control virtually any electrical, mechanical, or electronic device from anywhere in the world.

Packaged in a metal housing for mounting on interior or exterior walls or equipment, SNAP-IT-PM units are ideal for use in industrial environments. Typical applications include monitoring and controlling facilities, machines for manufacturing and processing, communication towers, tanks, pipelines, and other equipment. For example, you can:

- Detect machine jams and shutdowns

Part Number	Description
SNAP-IT-PM-ADS	Panel-mounted monitoring unit for analog, digital, and serial real-world devices
SNAP-IT-PM-D64	Panel-mounted monitoring unit for digital real-world devices
POWERCABLE-US	120 VAC power cord for use in the United States
POWERCABLE-UK	240 VAC power cord for use in the United Kingdom
POWERCABLE-INTL	240 VAC power cord for use worldwide

- Count numbers of products produced and track machine throughput
- Manage temperature, humidity, and security in facilities
- Turn on or off fans, lights, pumps, and compressors
- Monitor flow, pressure, and leaks in tanks and pipelines
- Monitor lights and line voltages on towers.

Using the unit's built-in Web server and Web pages, you can begin monitoring and controlling equipment and devices at once, without the expense and time of developing special software. Through the SNAP-IT unit you can access devices over your local Ethernet network, over a modem connection, or over the Internet, using any authorized computer with a standard Web browser. You can easily create your own custom Web pages in HTML or XML and upload them to the unit's Web server.

You can also communicate with the SNAP-IT unit using Modbus/TCP, OLE for Process Control (OPC), Linux or UNIX



Features

- Comes complete with SNAP Ethernet brain, mounting rack, and power supply, already wired. Just add I/O modules for your application.
- Monitors and controls real-world devices through existing networks, without special programming
- Built-in Web server and Web pages
- Easy access via any authorized computer with a standard Web browser; no additional software required
- Ethernet and serial communication ports
- Compatible with any SNMP-based enterprise management software
- 30-month warranty.

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Description (continued)

applications, or applications you develop in Visual Basic or Visual C++ using our free Driver Toolkit. In addition, you can communicate with the unit using all of these methods simultaneously. For example, a SNAP-IT unit can respond to directions from a Modbus master, give analog point data to a technician using its Web server, send an SNMP trap to an enterprise management system, and carry out instructions from a C++ application—all at once.

Each SNAP-IT unit comes with two communication ports:

- a 10/100 Fast Ethernet port for category 5 UTP cable with a standard RJ-45 connector
- an RS-232 serial port.

These physical communication methods support all popular LAN and WAN communication protocols, including SNMP, SMTP, HTTP, Modbus/TCP, and IEEE 1394, over TCP/IP, UDP/IP (for streaming data), and PPP (for a modem connection).

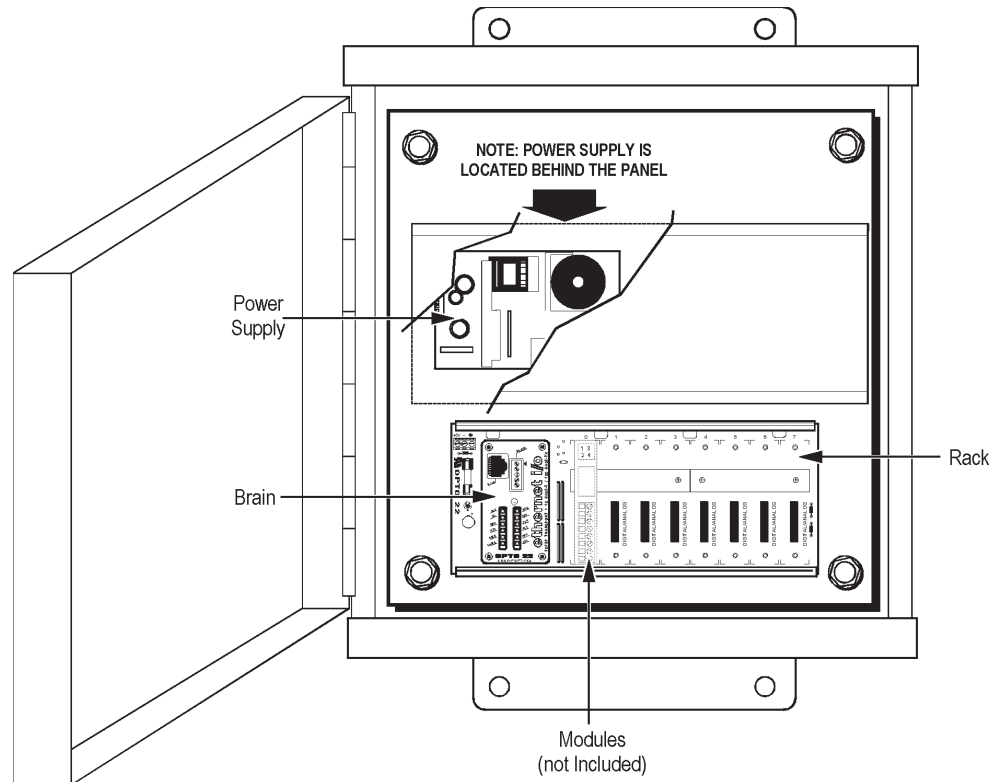
Certified for use with Computer Associates' Unicenter TNG® and compatible with other enterprise management systems using SNMP, SNAP-IT lets you deliver critical data from industrial, real-world devices to your company's enterprise-wide management consoles and databases.

When you order your SNAP-IT unit, also order the AC power cord suitable for your location: United States, United Kingdom, or worldwide. Other power supplies, such as 48 VDC, are available by special order.

SNAP-IT products protect sensitive computer electronics from the potentially hazardous field signals of real-world devices with transformer and optical isolation.

NOTE: SNAP-IT is also available packaged for rack mounting and suitable for use in controlled environments. See Opto 22 form #1240, the SNAP-IT Rack Mount data sheet, for more information.

The diagram at right shows the components within the panel-mount enclosure. Space is available in the unit for customer-installed terminal strips, modem, or other items as needed.



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Description (continued)

Available Models

SNAP-IT-PM-D64 can monitor *digital* electrical, mechanical, and electronic devices. Digital devices are devices that can be in one of only two states: either on or off. Dry contacts and door sensors are examples of digital devices. SNAP-IT-PM-D64 can manage up to 64 points from digital devices, each point either an input that reports the device's on/off status or an output that turns it on and off remotely.

SNAP-IT-PM-ADS can monitor *analog, digital, and serial* electrical, mechanical, and electronic devices. Analog devices are devices that have a range of possible values, such as temperature or pressure sensors. Digital devices can be either on or off. Serial devices, such as chart recorders and barcode readers, communicate with ASCII characters via a serial port.

Specifications

Enclosure	
SNAP-IT-PM	NEMA 3 Dimensions: 16.19" W, 18.25" H, 6.57" D
Communications	
Protocols	HTTP, HTML, XML, Modbus/TCP, HDML/WML, SNMP, and SMTP over TCP/IP, UDP/IP, and PPP
Ethernet Port	10/100 Mbps Fast Ethernet, using Category 5 solid UTP cable with RJ-45 connector
Serial Port	RS-232. Default rate is 19,200 Kbd; baud rate is soft-selectable from 2400 to 115,200 Kbd.
Other Specifications	
Power Supply	120–240 VAC (48 VDC and other options available by special order)
Power Cord (order separately)	120 VAC United States, 240 VAC United Kingdom, or 240 VAC international
Power Consumption	30 W
Temperature	0° to 70° C operating -30° to 85° C storage
Humidity	0–95% humidity, non-condensing

SNAP-IT Status LEDs

LED	Indicates
ACT	Network Activity
FD	Full Duplex Mode
ERD	Ethernet—Receive Data
ETD	Ethernet—Transmit Data
10MB	Ethernet Link Detection at 10 Mbps
100MB	Ethernet Link Detection at 100 Mbps
RUN	Normal Operation
3VF	3 Volt Fault
5VF	5 Volt Fault
FLT	Microprocessor Fault
SRD	Serial—Receive Data
STD	Serial—Transmit Data

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Dimensions—SNAP-IT-PM

Dimensions for the SNAP-IT-PM-ADS and the SNAP-IT-PM-D64 are identical.

