E-opto16

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The E-opto16 is an expansion board that adds 16 opto isolated dry contact inputs to the securityProbe5E. The E-opto16 can be connected to any of the 4 RJ-45 expansion ports located on the front panel of the securityProbe5E base unit using standard CAT5 LAN cable.

The E-opto16 may also be daisychained using the E-Out/E-In ports on other expansion boards.

Introducing the E-opto16

A wide variety of equipment that generates an output signal or voltage can be connected to each of the 2 wire dry contact inputs located on the back of the E-opto16 module. The (16) dry contact input LED status is displayed on the front panel.

E-opto16 Expansion Board

The E-modules can be extended up to 300 meters from the securityProbe5E base unit. There is no limit to how many E-modules can be connected to a single securityProbe 5E. It depends only on the number of sensors connected. A maximum of 600 data points can be monitored by the securityProbe5E base unit.

The 300 meter maximum run length is not the total run length of all of the E-Boards combined. This is each E-Boards maximum run length from either the base unit, or from each other.

A typical application for the E-opto16 would be to connect the outputs of an alarm panel to each of the 16 dry contact inputs allowing the securityProbe5E's full featured built in notification system to be integrated into these alarm panels, or other systems that output a voltage.

Differences between the E-opto16, X20, X60, IO-digital8 and DCS15.

- The extra dry contact inputs on the X20 and X60 units can be switched from opto-isolated mode to non-opto isolated mode (jumper setting on the boards), where the E-opto16 inputs are all shipped as opto isolated and cannot be configured as non-opto isolated. Because of this, the E-opto16 inputs do require an input voltage as the module will not supply this voltage. See the E-opto16 product manual for connecting simple switches to the modules inputs.

- The extra dry contact inputs on the X20/X60 units do not require any input voltage if left in their default configuration of non-opto isolated (see the sensorProbe manual for these jumper settings). The E-opto16 (16 opto isolated dry contact inputs) expansion unit is used when the customer requires inputs of more than 5volts DC up to 24volts DC, hence the use of the term opto-isolated.

- Differences between the E-opto16 and the IO-digital8 (8 inputs or outputs on a single sensor port) and DCS15 (single input or output on a single sensor port).

- Compared to the E-opto16, the IO-digital8 is for 5 Volts or less and it has the added advantage of supplying 5 Volts output at 20milliamps. This would be used if the inputs require 5 Volts or less or the requirements are a 5 Volt output. The DCS15 is the same only using a single input or output on a single RJ-45 port.

OID's for checking the Expansion Boards and securityProbe5E:

• The OID will start with .1.3.6.1.4.1.3854.2 for checking the sensors on the expansion modules including the E-sensor8.

• This SNMPwalk command .1.3.6.1.4.1.3854.2.3.1.1 can be used for checking all of the sensors on the securityProbe5E.

• This SNMPwalk command .1.3.6.1.4.1.3854.2.2.1.1 can be used for returning the status of the expansion boards.

Industry Certifications & Network Management Systems

AKCP offers NMS Integration for leading network management systems such as:

- **AdRem NetCrunch**
- **IBM Tivoli**
- **SiteScope**
- **Quest Software – Big Brother**
- **Loriot Pro**
- **Somis WebNM and Denika**

- **Castle Rock**
- **Logalot**
- **WhatsUp Gold**
- **HP OpenView**
- **MRTG**
- **Computer Associates Unicenter TNG**

Support and Warranty

- **1 year Limited Warranty, Optional 2 Year Warranty.**
- **Unlimited Lifetime Support.**
- **Free Firmware Updates.**
- **Full, Easy to Follow Documentation.**

Technical Specifications

Dimension	Expandable Ports	Mounting
Size : 8.5" x 5.43" x 1.80" Weight : 2.4 pounds	Daisy chain multiple E-modules including E-sensor8 and E-opto16 combined Uses standard RJ-45 connections and CAT5 LAN cable Data Transfer Rate: 115.2 KBPS Maximum extension cable run length: 300 meters (1000 feet) 1 RJ-45 expansion module input (E-in) 1 RJ-45 expansion module output (E-out)	Rack mount brackets included Compatible with AKCP DIN and Tray rack mount kits

Power Requirements	Status Indication	Output
Voltage 7.0 - 9 VDC, 3 Amp	LED indication for Power LED for E-module connectivity LED for dry contact status LED for Network Connectivity Disconnect alarm notification from securityProbe 5E base unit LED for sensor online and	1 RJ-45 expansion module output (E-out)

Power Consumption	Operating Environment	Components
Typical 6.150 Watt, 0.82A	Temp : Min. -35° C - Max. +55° C Humidity : Min. 20% - Max. 80% (Non-Condensing)	Manufactured using highly integrated, low power surface mount technology to ensure long term reliability.

Inputs	Power Consumption
16x 2 wire dry contact inputs configured as opto-isolated 2 wire dry contact inputs support up to 50 Volts DC and 80mA of current 1 RJ-45 expansion module input (E-in)	Typical 6.15 Watt, 0.82Amp

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