

Description

The architecture of an FxIP™ fire control network by Harding is comprised of a series of IP-based distributable modules. These modules include alternate configurations of Addressable loop and IOC\NAC circuit modules (ALM3-IP-xy), standard display modules (SDM3-IP/VPM3-IP), annunciator control modules (ACM3-IP) and other specialized modules noted in other documents.

A single Addressable Loop Module (ALM3-IP) may be connected directly to a Virtual Panel Module (VPM3-IP) by use of a straight-through or cross-over cable to form a single fire network system. Additional modules require the use of switches.

The ESU3-IP is a cost-effective unmanaged switch designed to cover most application needs. The ESU3-IP is available in 4 or 8 port configurations.

Each port on an ESU3-IP switch supports 10/100 Mbps Ethernet communication with ground fault detection. Each port can also distinguish between terminations made for standard Ethernet cabling or cross over cabling and compensate to adjust for the FxIP communication needs.

The EIS6-100T is a combination copper/fiber-optic switch for communication up to 2 or 40 kilometers (depending on model) with optional mode and connector-type selections.

The EIS6-100T is available as a copper-only switch or with ST/SC fiber connectors to support either single-mode or multi-mode. Both the ESU3-IP and the EIS6-100T can be mounted directly in the FxIP cabinetry using the FxIP integral 24V power supply, or in remote cabinets, powered by UL864 listed power supplies.

The ESU3-IP and the EIS6-100T are UL 864/10th edition listed for use on the FxIP™ fire control network.



Features

- ESU3-IP is a cost effective lightly managed switch for module integration
- ESU3-IP may be packaged in FC-250 and AC-100 cabinetry alone or with system modules
- ESU3-IP provides built in transient protection on connected Ethernet cables
- EIS6-100T-FCS is a combination copper/fiber-optic switch
- EIS6-100T packaged in AC-100
- Both modules Listed for UL 864/10th edition
- ESU3-IP and EIS6-100T may be used as necessary to support network topology
- Module capacity: no limit

Listing

UL 864/10th Edition File (S35453)
FCC Part 15 Class A Compliant

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Represented by:



Engineer Specification

The contractor shall furnish and install, where indicated on the plans, ESU3-IP unmanaged switches and/or EIS6 copper/fiber-optic switches to provide for internal or remote connection of distributed IP based system modules. The ESU3-IP unmanaged switch and EIS6 fiber-optic switch must be UL listed and UL listed as compatible with Harding network fire controls. The copper and fiber-optic switches shall be Harding part numbers ESU3-IP and EIS6.

Technical Data

ESU3-IP

Managed Switch/Router
 Quiescent Power Draw: 100 mA
 Alarm Power Draw: 100 mA
 Power Regulated 24Vdc
 10BaseT/100BaseTX Auto negotiation
 Auto MDI/MDIX
 Requires Cat5 or higher cable (max 328 ft, 100M)

EIS6-100T-FT, EIS6-100T-FCS

Copper/Fiber-optic Switch/Router
 Power Consumption All Models:
 7W typical/9W max

Ordering Information

<u>Part Number</u>	<u>Description</u>
ESU3-IP	Ethernet Switch Unit
EIS6-100T-FT	4 port 100BASE-TX/2 port 100BASE-FX (multimode) ST connectors
EIS6-100T-FCS	4 port 100BASE-TX/2 port 100BASE-FX (single-mode) SC connectors

Related Modules and Accessory Cards

<u>Part Number</u>	<u>Data Sheet</u>	<u>Description</u>
VPM3-IP	DS-VPM3-IP/SDM3-IP	SDM3-IP configured as VPM3-IP Module for System Management
SDM3-IP	DS-VPM3-IP/SDM3-IP	Standard Display Module
ALM3-IP-10	DS-ALM3-IP	ALM3-IP Module with 1 1A/24V SLC, 0 3A/24V IOC\NAC Circuits
ALM3-IP-02	DS-ALM3-IP	ALM3-IP Module with 0 1A/24V SLC, 2 3A/24V IOC\NAC Circuits
ALM3-IP-12	DS-ALM3-IP	ALM3-IP Module with 1 1A/24V SLC, 2 3A/24V IOC\NAC Circuits
ALM3-IP-20	DS-ALM3-IP	ALM3-IP Module with 2 1A/24V SLC, 0 3A/24V IOC\NAC Circuits
ALM3-IP-22	DS-ALM3-IP	ALM3-IP Module with 2 1A/24V SLC, 2 3A/24V IOC\NAC Circuits
ACM3-IP	DS-ACM3-IP	Annunciator Control Module (up to 64 Configurable Points)

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