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A740 Rack Locator

RFCODE Locators

The A740 Rack Locator, used in conjunction with RF Code IR- enabled location sensors, facilitates accurate and affordable rack- level asset location awareness.

Features & Benefits

- Rack-Level Location Accuracy for Open or Closed Racks
- Simple Installation
- Encoded Infrared Transmissions
- User-Configurable Location Settings
- Field Upgradeable Firmware

The A740 Rack Locator is an infrared (IR) signaling unit designed for use in IT data centers with open or closed server racks. When deployed in concert with IR-enabled sensors (and optional A750 Room Locators) the system provides a method of locating tagged assets with rack-level precision. Each Rack Locator transmits an infrared pulse pattern containing a unique 4-digit location code. The intensity of the IR transmissions can be adjusted to achieve complete coverage for open or closed racks with minimal bleed-over to adjacent racks.

IR-enabled sensors monitor their environment for incoming IR signals and periodically report both their own unique ID and the applicable IR location code. Sensor transmissions are processed in real-time to quickly locate and identify tagged assets with rack-level accuracy, for open or closed racks.

A750 Room Locators can be used to illuminate larger coverage zones (e.g., receiving and staging areas) with a typical radius of 35 feet. Coverage zones are limited by solid physical structures such as rack doors and walls, however IR transmits within line-of-sight, and signal bouncing effectively floods a coverage zone with the location code.

The A740 has a unique form factor consisting of a small control box and two flexible LED banks. Powered by a 100-240 V power supply w/ IEC connector and US cord, the A740 Rack Locator will perform reliably in temperature environments from -20 to +70 degrees Celsius. With simple installation, modular design and low price, Rack Locators provide an economical solution to a variety of asset tracking problems. Large populations of assets can be monitored using a single reader. Since the location of tagged asset is determined via IR location reports, there is no need for redundant readers, signal strength calculations or complicated triangulation algorithms.

Easy to install and affordable, the A740 transmits a unique IR signature that enables rack-level accuracy tracking solutions when used with IR-enabled location sensors.



RF Code A740 Rack Locator Specifications

OPERATION	
Configuration	Program address and intensity via mini-USB
Operating Frequency	36 kHz
Power Control	Adjust from 10% to 100%
Indicators	Power LED

RACK COMPATIBILITY	
A740-0001	Suitable for 24" or 30" wide 52U open or closed racks
A740-0002	Suitable for 24" or 30" wide 42U open or closed racks

CONTROL BOX	
Length	2.0 in (5.1 cm)
Width	1.4 in (3.6 cm)
Height	.85 in (2.2? cm)
Weight	.9 oz (25.5 g)
Case	Injected molded plastic
Mounting	Adhesive backing

LED BANKS (A740-0002 FOR 42U RACKS)	
Length	90 in (7.5 ft / 2.5 m)
Width	0.32 in (81 mm)
Height	0.10 in (26 mm)
Design	4 IR segments with 16 IR elements
Mounting	Adhesive backing

ENVIRONMENTAL	
Operating Temperature	0° C to +50° C
Storage Temperature	-40° C to +80° C
Operating Humidity	10% to 90% non-condensing

ELECTRICAL	
Power	100-240 V power supply w/ IEC connector

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