Designed for mounting using either its adhesive backing or a zip tie, the R114-i complements the R104-i IR-Enabled IT Asset Tag when used with the A740 Rack Locator in mixed rack equipment deployments on blade servers, tower equipment, and other IT assets.

Features & Benefits

- *Encoded Radio Transmissions at 433 MHz*

- *Specially Designed for Use with Rack Installed Assets*

- *Designed for Use with a Single Asset*

- *Industrial-Strength Adhesive Backing and Zip-Tie Lanyard Loop Allow for Easy Installation*

- *Superior Anti-Collision Technology for High Tag Densities*

- *Designed for Use with the A740 Rack Locator*

- *Easy Installation*

- *On-Demand Inventory of Rack-Mounted Assets*

- *Low Power Consumption for Long Battery Life*

R114-i IR-Enabled Tags are equipped with on-board infrared (IR) sensors. These tags are designed to be deployed in concert with RF Code's A740 Rack Locators and A750 Room Locators. IR-enabled tags monitor their environment for incoming IR signals and periodically report both their own unique ID and IR location codes. Tagged assets can be rapidly located with rack-level or room-level precision. The R114-i enclosure is injection-molded using an IR-transparent material with an integrated optic lens that synchronizes the tag with the nearest IR transmitter. Since the location is determined via the IR code, there is no need for redundant readers, signal strength calculations or triangulation algorithms.

Designed for flexible mounting scenarios, the R114-i battery-powered 433 MHz RF transmitter attaches to assets such as blade servers and tower equipment. The R114-i's form factor works as a complement to R104-i IT Asset Tags and these tags are perfect for use in mixed-equipment deployments.

These affordable tags feature both an industrial-strength adhesive backing and circular mounting holes (for zip-tie lanyard loop or hardware mount), providing for quick and easy installation in a variety of scenarios. The R114-i's form factor ensures clear signal transmission in high-density rack and data center deployments. Every tag broadcasts its unique ID and IR location using RF Code's patented communication protocol, allowing for very high tag densities and ensuring accurate real-time collection of asset inventory and location data.

Powered by a coin cell battery, the R114-i tag will perform reliably in extreme temperature environments (from -20 to +70 degrees Celsius). In addition, the tag performs well after exposure to humidity and hot / cold cycles. R114-i tag cases are impact resistant and temperature stable. The R114-i tag operates with a very low duty cycle that translates to long battery life (typically > 5 years). These tags provide an economical solution for a variety of asset tracking environments.

RF Code solutions eliminate expensive, inaccurate, time-consuming manual processes while increasing visibility of your data center's rack-based assets. With RF Code, you have "instant inventory"—automated, real-time, on-demand physical asset inventory and management for your data centers.

RF Code R114-i IR-Enabled Flex-Mount Asset Tag Specifications

OPERATION

Operating Frequency	433.92 MHz
Group Code & Tag ID Codes	> 540,000 unique IDs per Group Code
Typical Transmission Range	> 30 ft in the data center
Radiated Emissions	71.8 dBuV/m at 3 meters (maximum)
Modulation	ASK
Stability	Saw stabilized

ENCLOSURE

Width (tongue)	2.22 in	(56.4 mm)
Depth (tongue)	1.74 in	(44.2 mm)
Height (tongue, including IR lens)	0.51 in	(12.9 mm)
Case Weight (with tag)	1.20 oz	(34.16 g)
Construction	Lexan polycarbonate	
Durability	Tough, impact resistant and temperature stable	
Mounting Options	3M 200 MP Adhesive	

ENVIRONMENTAL

Operating Temperature	-20° C to +70° C
Storage Temperature	-40° C to +80° C
Operating Humidity	< 95% RH non-condensing; not recommended for outdoor applications
Sealing	Splash resistant

IR COMPATIBILITY

Rack Locators	RF Code A740 with Series 2 Protocol
Room Locators	RF Code A750 with Series 2 Protocol

POWER

Battery Type	Lithium CR2032 coin cell
Smart Tag Feature	Low battery indication
Battery Life	> 5 years

RF Code™