

Series 90-70 to RX3i Conversion Rack

Plug-and-Play Conversions for Fast and Seamless Upgrades

Emerson understands that equipment performance improvements are the primary goal of system upgrades. We leverage industry standards and our own considerable experience in automation to deliver long-life, higher performance solutions that are easy to configure, manage and upgrade.

In as little as 10 minutes, Emerson offers a conversion rack that customers can leverage in order to perform “plug-and-play” upgrades of their current Series 90-70 PLC systems to the PACSystems RX3i, with its industry-leading innovation, performance and reliability characteristics.

The conversion rack is one of several innovative solutions that Emerson offers to enable ease of migration for customers who wish to upgrade legacy systems to modern technologies. These tools enable reduced conversion risk along with instantaneous performance improvement and connectivity to the Industrial Internet.

Upgrade performance without loss of uptime

Our conversion rack provides a very simple migration path to upgrade legacy Series 90-70 PLCs to high-performance control solutions with best-in-class integration of distributed (networked) I/O that is ideally suited for more demanding applications.

The conversion rack compliments the capabilities of the PROFINET-enabled Emerson solution with the addition of a comprehensive line of plug-and-play conversion I/O that allows customers to simplify the change-out from Series 90-70 I/O to RX3i PROFINET I/O without rewiring the I/O field terminals.



Save time and money

The conversion rack addresses the challenges of performing upgrades to existing Series 90-70 controls by limiting the impact to a customer’s current production schedule and reducing the high cost of field rewiring and control panel modifications.

The flexible nature of the conversion rack enables a customer to stage migrations under their defined project plan by individually replacing sections. This reduces the bottom line to implement upgrade changes and raises the success rate.

Wiring mistakes are virtually eliminated by letting Emerson provide pre-engineered wiring solutions that will save you time during the design, change-out and commissioning phases of the upgrade project. Upgrade in hours, not days!

Features

- Ease of conversion
- Transition I/O wiring
- Pre-engineered I/O solutions
- Configurable backplanes
- Rugged design
- Affordable alternative

Benefit

- Matches Series 90-70 footprint—no drilling inside of enclosure required (rack depth with RX3i is 10.8" vs. 90-70 at 9.5")
- Designed to remount 90-70 field terminals—no hand wiring is required, which decreases downtime and improves commissioning
- Reduced development time—with 37 available I/O configurations, Emerson offers the best match available to meet the installed specifications
- Flexible design—enables “right-sizing” of the RX3i backplanes which results in minimum installation cost and panel space (7-, 12- and 16-slot)
- Rugged design—provides an easy and secure installation (UL and CE compliant)
- Financially smart—eliminates 50% or more of upgrade labor costs

Flexible backplane configurations

- 7-slot
- 12-slot
- 16-slot
- Mechanical details available in GFK-2792

More than 30 plug-and-play I/O solutions available in GFK-2793

- AC and DC I/O
- Relay outputs
- Analog I/O
- Accommodate for 90-70 I/O density

User-Friendly Design

- Uses existing Series 90-70 mount holes
- Easy access to RX3i programming ports
- Fold-down door provides access to field wiring
- Easy-to-read LED Status

Global Standards

- CE, UL, CUL, ATEX approved
- Meets the same testing criteria as Series 90-70 and RX3i controllers

Specialty Harnesses Available

- Catalog IC695CRH001 to 039 (specifications available in GFK-2793)
- Assembled under ISO9001, UL, and WHMA A-620 standards
- Custom lengths can be requested to address customer needs

Conversion Rack provides a flexible alternative to rewiring a controller.

Powerful Solution

The conversion rack’s innovative design enables Series 90-70 field signals to be passed from Series 90-70 field wiring connections to the RX3i control system to deliver the RX3i’s expanded performance capabilities in the same panel space.



Ordering Information

Order Number	Description
IC695ACC650	Series 90-70 to RX3i 9 Slot Conversion Rack
IC695ACC651	Series 90-70 to RX3i Conversion Rack Adapter Card
IC695ACC652	Series 90-70 to RX3i 5 Slot Conversion Rack
IC695CRH001 to 039	Conversion Rack Harness Assembly (part number varies by module)

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