GE RX3i PacSystem Series Service Manual

IC695CHS007

1. Description

The IC695CHS007 is a universal backplane that is part of the PACSystem RX3i platform, currently under Emerson Automation, formerly produced by GE Intelligent Platform (GE IP). This backplane features One (1) slot for an IC695 Power supply (Slot 0) and PCI based / Serial Based IO slots (Slot 1-5) and PCI only slot (Slot 6). This backplane supports IC695, IC694 and IC693 I/O and option modules or RX3i and Series 90-30 modules. This module is provided with an isolated 24 VDC terminal strip, groundi

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**PACSystem RX3i**
Manufacturer	**Emerson Automation**
Manufacturer	**GE Intelligent Platforms (Former); Emerson Automation (Current)**
Part	**Number IC695CHS007**
Product	**Description Universal backplane**
Series	**PACSystem RX3i**
Compatibility	**RX3i PACSystem, Series 90-30 I/O, option modules**
Supported	**modules RX3i and Series 90-30 I/O and option modules**
Part	**Number IC695CHS007**
Mounting	**Panel mount**
No	**of slots Seven (7)**
Product	**Description 7-Slot Rack**
Type	**Universal backplane**
Current	**rating 600 mA at 3.3 VDC, 240 mA at 5 VDC.**
No.	**of Slots Seven (7)**
Number	**of Slots 7**
Bus	**connectors PCI Bus / Serial Bus**
Supported	**Module: RX3i / Series 90-30**
Input	**+24 Volts**
Dimensions	**10.43 in W x 5.8 in D x 5.57 in H**
Slot	**Assignment Slot 0: IC695 Power Supply Slot 1-5: RX3i and Series 90-30 option and I/O module Slot 6: RX3i option and I/O module**
Internal	**Power 240 milliamps at 5 Volts DC, 600 milliamps at 3.3 Volts DC**
Input	**Terminals TB1; Terminal 7: Isolated 24VDC Terminal 8: Isolated ground**
Mounting	

3. Product Information

The IC695CHS007 is a universal backplane that is part of the PACSystem RX3i platform, currently under Emerson Automation, formerly produced by GE Intelligent Platform (GE IP). This backplane features One (1) slot for an IC695 Power supply (Slot 0) and PCI based / Serial Based IO slots (Slot 1-5) and PCI only slot (Slot 6). This backplane supports IC695, IC694 and IC693 I/O and option modules or RX3i and Series 90-30 modules. This module is provided with an isolated 24 VDC terminal strip, grounding point and internal grounding bar.

Technical specifications for IC695CHS007

Brand GE Fanuc

Series PACSystem RX3i

Manufacturer Emerson Automation

Manufacturer GE Intelligent Platforms (Former); Emerson Automation (Current)

Part Number IC695CHS007

Product Description Universal backplane

Series PACSystem RX3i

Compatibility RX3i PACSystem, Series 90-30 I/O, option modules

Supported modules RX3i and Series 90-30 I/O and option modules

Part Number IC695CHS007

Mounting Panel mount

No of slots Seven (7)

Product Description 7-Slot Rack

Type Universal backplane

Current rating 600 mA at 3.3 VDC, 240 mA at 5 VDC.

No. of Slots Seven (7)

Number of Slots 7

Bus connectors PCI Bus / Serial Bus

Supported Module: RX3i / Series 90-30

Input +24 Volts

Dimensions 10.43 in W x 5.8 in D x 5.57 in H

Slot Assignment Slot 0: IC695 Power Supply Slot 1-5: RX3i and Series 90-30 option and I/O module Slot 6: RX3i option and I/O module

Internal Power 240 milliamps at 5 Volts DC, 600 milliamps at 3.3 Volts DC

Input Terminals TB1; Terminal 7: Isolated 24VDC Terminal 8: Isolated ground

Mounting orientation Horizontal

Required Protection for Installation NEMA/UL Type 1 (IP20)

Recommended wire size 14 to 22 AWG

Mounting Clearance 102 mm (4.0 in.) on all sides

Minimum Required Clearance for Installation 102 millimeters (4 inches) on all sides

Mounting orientation: Horizontal

Enclosure rating NEMA/UL Type 1 enclosure or an IP20 rating

Backplane Orientation Horizontal

Enclosure IP54 or greater

Dimension (H x L) 141.5mm (5.57in) x 265mm (10.43in)

Dimensions (HxWxD) 141.4 x 264.9 x 147.3 millimeters (5.5 x 10.4 x 5.8 inches)

Grounding bar Internally installed

Grounding terminal Included

Installation clearance 102 mm (4.0 in) on all sides

Terminal Strip (TB1) Isolated +24 VDC

Module Hot-swap Supported

Lifecycle status Active

The IC695CHS007 is a universal backplane from the PACSystem RX3i Programmable Automation Controller (PAC) series. This backplane is a Seven (7) slot backplane, reserved for Power supply and I/O modules. It natively supports any IO and option module of the PACsystem RX3i series as well as series 90-30 I/O and option modules. The IC695CHS007 slot 0 is reserved for installation of an IC695 power supply. Slot 1-5 are dual connector slots that support Peripheral Component Interconnect (PCI) type connectors utilized by PACSystem components such as IC695 modules and Serial connectors used by Series 90-30 modules particularly IC693 and IC694 modules. Slot 6 which is the rightmost and last slot, only supports PCI, compatible only with RX3i modules. The IC695CHS007 is ideally used for application with limited mounting space or for implementation of remote I/O architecture. This module is provided with a 24 VDC terminal strip located on the left end of the rack. A backplane grounding point and an integral grounding bar for connection of shield and grounding connections of the hosted module of the rack. Slot numbers are also printed clearly to this rack to mount the modules accordingly. The IC695CHS007 is available in Two (2) releases particularly, IC695CHS007-AA which is the initial release and the IC695CHS007-BA later release which includes mechanical enhancements especially with the backplane PCI connector of the chassis. The IC695CHS007 is designed for horizontal minting only. Other mounting orientations may affect airflow and ultimately affect system performance. This rack directly mounts to the enclosure subpanel via the provided mounting hole available to the chassis.

The GE IC695CHS007 backplane is a universal backplane that is part of the RX3i PACSystems series that is designed and manufactured by GE Fanuc and it is a replacement for the Series 90-30 system. The IC695CHS007 backplane has an input voltage of +24 Volts. The users should note that the suggested mounting method should include horizontal orientation and installation in a protective enclosure with a minimum protection rating of IP 20 (NEMA Type 1). The IC695CHS007 universal backplane has a grounding point along with terminal strip located on the left end. Also, the backplane includes an integrated grounding bar and visible slot numbers for configuration and it provides support for systems and option

modules from other manufacturers. The IC695CHS007 backplane has an internal current of 240 milliamps at 5 Volts DC and a current of 600 milliamps at 3.3 Volts DC and it has 7 available slots for components. The supported components can include PCI I/O components like the IC693. The PCI components that are compatible start with the product code IC695. The GE backplanes like the IC695CHS007 backplane can be used in hazardous areas but they require an enclosure with higher degree of protection in these environments. The minimum protection rating for hazardous locations is IP 54. The IC695CHS007 backplane does not require much installation space but it needs a minimum of 4 inches of space on all sides in order to have proper cooling. The specified dimensions of the unit are 141.4 x 264.9 x 147.3 millimeters (5.5 x 10.4 x 5.8 inches).