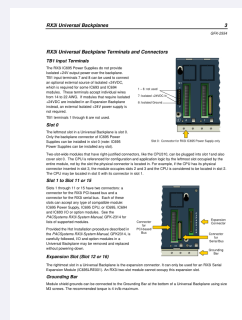


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

IC695CHS012-CA

12-Slot Universal Backplane



PRODUCT	IC695CHS012-CA
FAMILY	PACSystems RX3i
FUNCTION	12-Slot Universal Backplane
SOURCE	GE Intelligent Platforms GFK-2554, Universal Backplanes

01 OFFICIAL MOUNTING AND WIRING

- Mount the backplane horizontally inside the specified protective enclosure.
- Maintain the required cooling clearance and connect the grounding provisions.
- Use the manufacturer slot-allocation diagrams before installing CPU and power supplies.

AMIKON PRODUCT SUPPORT

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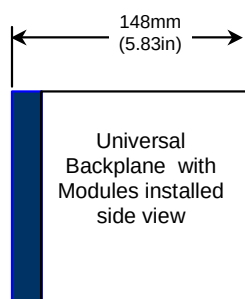
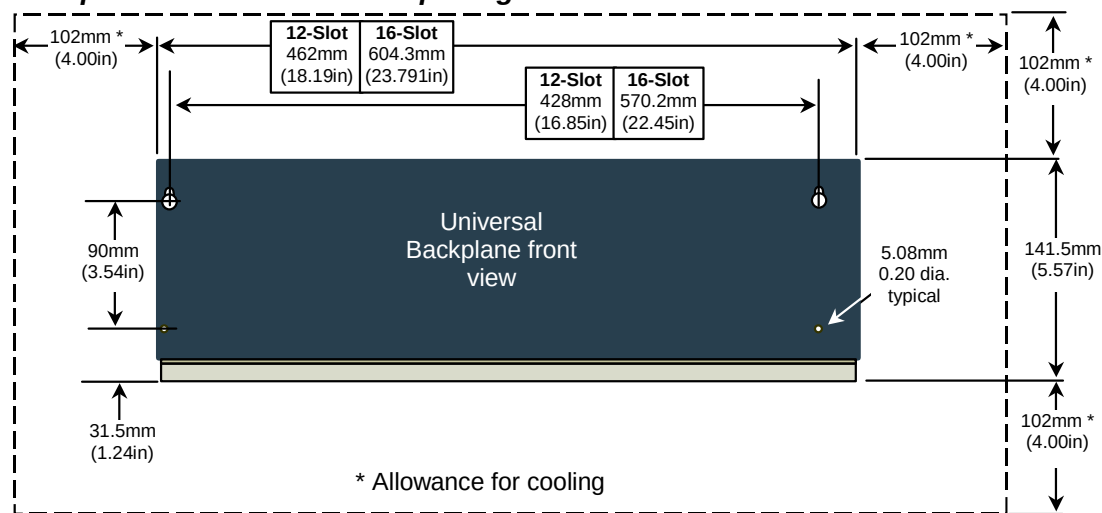
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RX3i Universal Backplane Installation

The RX3i system and its components are considered open equipment [having live electrical parts that may be accessible to users] and must be installed in a protective enclosure or incorporated into other assemblies manufactured to provide safety. As a minimum, the enclosure or assemblies must provide protection equivalent to a NEMA/UL Type 1 enclosure or an IP20 rating (IEC60529). The enclosure must be able to adequately dissipate the heat generated by all of the components mounted inside so that no components overheat. A minimum space of at least 102mm (4 inches) as shown below is required on all sides of the RX3i backplane for cooling. Additional space may be required, depending on the amount of heat generated by the equipment during operation. Please refer to the *PACSystems RX3i System Manual*, GFK-2314, for information about enclosures and heat dissipation.

Backplane Dimensions and Spacing



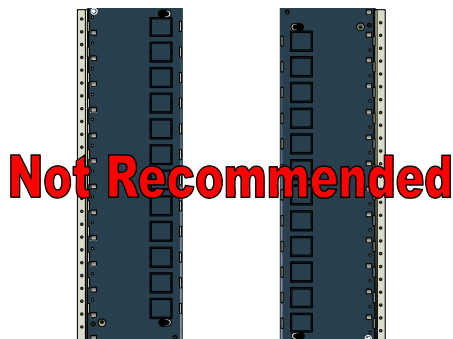
Side dimension is for standard modules with doors closed.

Side dimension does not include extra depth required for cables and connectors.

Modules with Extended High-Density Terminal Blocks (such as Terminal Block IC694TBB132) are approximately ½-inch (13mm) deeper overall.

Backplane Orientation

Backplanes must be mounted horizontally to meet product performance and reliability specifications by providing adequate airflow around the modules. Other mounting orientations may affect system performance and/or reliability and are therefore not recommended.



RX3i Universal Backplane Terminals and Connectors

TB1 Input Terminals

The RX3i IC695 Power Supplies do not provide Isolated +24V output power over the backplane. TB1 input terminals 7 and 8 can be used to connect an optional external source of Isolated +24VDC, which is required for some IC693 and IC694 modules. These terminals accept individual wires from 14 to 22 AWG. If modules that require Isolated +24VDC are installed in an Expansion Backplane instead, an external Isolated +24V power supply is not required.

TB1 terminals 1 through 6 are not used.

Slot 0

The leftmost slot in a Universal Backplane is slot 0. Only the backplane connector of IC695 Power Supplies can be installed in slot 0 (note: IC695 Power Supplies can be installed any slot).

Two-slot-wide modules that have right-justified connectors, like the CPU310, can be plugged into slot 1 and also cover slot 0. The CPU is referenced for configuration and application logic by the leftmost slot occupied by the entire module, not by the slot the physical connector is located in. For example, if the CPU has its physical connector inserted in slot 3, the module occupies slots 2 and 3 and the CPU is considered to be located in slot 2. The CPU may be located in slot 0 with its connector in slot 1.

Slot 1 to Slot 11 or 15

Slots 1 through 11 or 15 have two connectors: a connector for the RX3i PCI-based bus and a connector for the RX3i serial bus. Each of these slots can accept any type of compatible module: IC695 Power Supply, IC695 CPU, or IC695, IC694 and IC693 I/O or option modules. See the *PACSystems RX3i System Manual*, GFK-2314 for lists of supported modules.

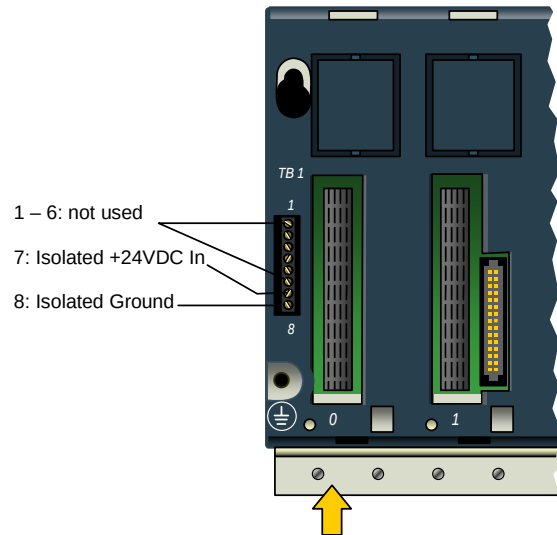
Provided the Hot Installation procedure described in the *PACSystems RX3i System Manual*, GFK2314, is carefully followed, I/O and option modules in a Universal Backplane may be removed and replaced without powering-down.

Expansion Slot (Slot 12 or 16)

The rightmost slot in a Universal Backplane is the expansion connector. It can only be used for an RX3i Serial Expansion Module (IC695LRE001). An RX3i two-slot module cannot occupy this expansion slot.

Grounding Bar

Module shield grounds can be connected to the Grounding Bar at the bottom of a Universal Backplane using size M3 screws. The recommended torque is 4 in/lb maximum.



Slot 0: Connector for RX3i IC695 Power Supply only

