

INDUSTRIAL AUTOMATION PRODUCT

IC695CHS016

PACSystems RX3i 16-Slot Universal Backplane

GE IC695CHS016 is a 16-slot PACSystems RX3i universal backplane. It mechanically supports the RX3i rack and distributes backplane power and PCI/serial communication paths among the controller, I/O and option modules.

IDENTITY	VERIFIED VALUE
Manufacturer	GE
System family	PACSystems RX3i Universal Backplanes
Part number	IC695CHS016
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named GE product record.

PARAMETER	TECHNICAL VALUE
Backplane platform	PACSystems RX3i
Universal module positions	16 slots
Backplane buses	PCI and serial
Supported module families	IC695, IC693 and IC694
Isolated auxiliary input	+24 V terminal strip
Grounding facilities	Backplane grounding point and integral grounding bar
Expansion connection	Serial Expansion connector
Rightmost special position	IC695LRE001 only
Minimum ordinary-location enclosure	NEMA/UL Type 1 or IEC 60529 IP20
Pollution degree	2
Hazardous-location classification	Class I, Division 2, Groups A, B, C, D
ATEX installation	Zone 2, Group IIC, IP54 enclosure
Latest documented catalog revision	IC695CHS016-JC
Compatible head ends	IC695CPE330; IC695CPE302/305/310; IC695PNS001-Bxxx; IC695PNS101

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System Role and Architecture

GE IC695CHS016 is a 16-slot PACSystems RX3i universal backplane. It mechanically supports the RX3i rack and distributes backplane power and PCI/serial communication paths among the controller, I/O and option modules.

FUNCTION 1
Carries both PCI-based IC695 traffic and serial IC693/IC694 I/O traffic

FUNCTION 2
Provides sixteen documented positions for an engineered RX3i rack layout

FUNCTION 3
Distributes backplane power, control and I/O communication among installed modules

FUNCTION 4
Supports serial expansion through the dedicated right-end connection position

Matched system components

- compatible RX3i head-end controller or PROFINET scanner
- approved RX3i power supply
- IC695 PCI modules and qualified IC693/IC694 serial modules
- IC695LRE001 when serial expansion is required

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	compatible RX3i head-end controller or PROFINET scanner
Companion hardware	approved RX3i power supply
Field connection	IC695 PCI modules and qualified IC693/IC694 serial modules
Primary system function	Carries both PCI-based IC695 traffic and serial IC693/IC694 I/O traffic
Controlled acceptance duty	Sixteen-position RX3i central controller racks

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Applications and Engineering Context

Sixteen-position RX3i central controller racks

Carries both PCI-based IC695 traffic and serial IC693/IC694 I/O traffic

Mixed PCI and serial I/O modernization projects

Provides sixteen documented positions for an engineered RX3i rack layout

PROFINET scanner head-end assemblies with local RX3i modules

Distributes backplane power, control and I/O communication among installed modules

Serial expansion and remote-backplane integration

Supports serial expansion through the dedicated right-end connection position

TECHNICAL NOTE

Mount IC695CHS016 in the specified protective enclosure, bond the backplane and shield grounding points, and align every module connector without side loading. Confirm head-end firmware compatibility with the installed backplane revision before energizing the rack.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC695CHS016 / IC695CHS016 recorded
Physical interface	compatible RX3i head-end controller or PROFINET scanner
Companion check	approved RX3i power supply
Functional proof	Carries both PCI-based IC695 traffic and serial IC693/IC694 I/O traffic
Application test	Sixteen-position RX3i central controller racks

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Engineering Precautions

1

Verify the complete IC695CHS016 revision and the required controller or scanner firmware before rack assembly.

2

Install IC695CHS016 as open equipment inside the enclosure rating required for the operating location.

3

Isolate rack and field power before inserting, removing or rewiring any backplane-mounted module.

4

Bond the backplane grounding point and integral module/shield grounding bar to the cabinet grounding system.

5

Align IC695 module PCI connectors carefully and do not force a module into a damaged or misaligned slot.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC695CHS016	PACSystems RX3i 16-slot universal backplane	View IC695CHS016 page
IC693CMM321	Series 90-30 Ethernet interface	View IC693CMM321 page
IC695ALG600	RX3i universal analog input	View IC695ALG600 page
IS200TRL1YH1BED	GE relay output interface board	View IS200TRL1YH1BED page
MIVII3000E00HI00	GE MIV II voltage and frequency relay	View MIVII3000E00HI00 page
IS215VPROH1BD	GE VPRO turbine protection board	View IS215VPROH1BD page
IC200UDR005-DJ	GE VersaMax micro PLC	View IC200UDR005-DJ page
IC695CPE305	RX3i CPE305 controller	View IC695CPE305 page

MANUFACTURER SOURCE RECORD

PACSystems RX3i Backplane IC695CHS012 and IC695CHS016 Important Product Information

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