

IC695ALG616

RX3i 16-Channel Analog Current/Voltage Input Module

Emerson IC695ALG616 is a non-isolated differential analog input module with sixteen single-ended or eight differential channels. It supports software-configurable current and voltage measurements in an

PRODUCT SNAPSHOT

BRAND
Emerson

FAMILY
PACSystems RX3i I/O

PART
IC695ALG616

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

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PRODUCT OVERVIEW

IC695ALG616 provides high-density analog current and voltage signal acquisition for a matched PACSystems RX3i I/O installation.

- Exact catalog identity IC695ALG616
- RX3i 16-Channel Analog Current/Voltage Input Module
- Documented role: high-density analog current and voltage signal acquisition
- Controlled installation, diagnostics and functional verification

RELATED APTER POWER PAGES		
1 General Electric IC670GBI002	2 General Electric IC670GBI001	3 General Electric DS200SBCBG1ADC
4 General Electric IC670ALG320	5 General Electric IC670ALG310	6 General Electric IC670ALG240
7 General Electric IC670ALG230	8 General Electric IC670MFP100	9 General Electric IC670FBI001

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitior Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to the documented RX3i slot or carrier, terminal assembly, field power and engineering configuration. Commissioning preserves the installed architecture and verifies controlled response.

TECHNICAL DATA

PARAMETER	VALUE	PARAMETER	VALUE
Input channels	16 single-ended or 8 differential	Configuration	Software configurable; no jumpers
Current ranges	0–20 mA, 4–20 mA and ±20 mA	Calibration	Full autocalibration
Voltage ranges	±10 V, 0–10 V, ±5 V, 0–5 V and 1–5 V	Diagnostics	Open-circuit detection, module and point-fault reporting
Backplane	RX3i Universal Backplane	Alarms	High, low, high-high, low-low and rate-of-change
Hot swap	Supported	Compatible terminal blocks	IC694TBB032, TBB132, TBS032 or TBS132

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TECHNICAL NOTE

Install IC695ALG616 only in the documented PACSystems RX3i I/O position. Preserve the as-found terminal, point and configuration records; then verify diagnostics and high-density analog current and voltage signal acquisition under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

PACSystems RX3i planned maintenance

Restores high-density analog current and voltage signal acquisition in the documented control

RX3i 16-Channel Analog Current/Voltage Input Module replacement

Uses exact IC695ALG616 identity instead of an adjacent I/O or CPU execution.

Control-system refurbishment

Preserves the installed slot, terminal block, point map, power and engineering configuration.

Controlled recommissioning

Confirms diagnostics and the affected signal or control function before automatic operation.

PRODUCT PRECAUTIONS

1

Confirm the complete IC695ALG616 marking, module designation and documented RX3i installation position.

2

Place the controller, machine and connected process in the approved maintenance state.

3

Isolate controller and field power, prove the safe state and apply ESD controls before handling.

4

Record the slot, terminal block, every point assignment, common, shield and connected circuit before removal.

5

Verify the official electrical and configuration values documented for IC695ALG616; do not infer adjacent

6

Restore the approved backplane or carrier, terminal block, field power and engineering configuration.

7

Energize in the manufacturer sequence and review CPU, bus, module and channel diagnostics.

8

Complete a controlled signal, output or controller-response test before service release.

RELATED APTER POWER PAGES

1

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General Electric IC670GBI001

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General Electric DS200SBCBG1ADC

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General Electric IC670MFP100

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General Electric IC670FBI001

ENGINEER FAQ

Q1 How is IC695ALG616 distinguished from adjacent RX3i catalog numbers?

Match the complete IC695ALG616 marking, the RX3i 16-Channel Analog Current/Voltage Input Module designation and its recorded slot or carrier position.

Q2 What function is assigned to IC695ALG616 in the documented system?

The module provides high-density analog current and voltage signal acquisition in the matched PACSystems RX3i I/O installation.

Q3 What is the official input channels for IC695ALG616?

Emerson documents input channels as 16 single-ended or 8 differential; verify that value against the installed execution before work.

Q4 Which current ranges applies to IC695ALG616?

The official value is 0–20 mA, 4–20 mA and ± 20 mA. Preserve the corresponding power, signal or controller configuration.

Q5 How should the documented voltage ranges be checked on IC695ALG616?

Confirm voltage ranges is ± 10 V, 0–10 V, ± 5 V, 0–5 V and 1–5 V and compare the as-found wiring or configuration with the approved record.

Q6 What evidence is needed for the backplane of IC695ALG616?

Record the installed condition and verify the official value RX3i Universal Backplane during controlled commissioning.

Q7 What must be preserved before replacing IC695ALG616?

Record the slot or carrier, terminal assembly, point assignments, wiring, commons, shields, firmware or configuration state and active diagnostics.

Q8 How is IC695ALG616 accepted after installation?

Restore the documented hardware and point map, review module and controller diagnostics, and perform a controlled test of high-density analog current and voltage signal acquisition.

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SOURCE Emerson Important Product Information GFK-2372U | Emerson official product and PACSystems documentation, accessed 24 September 2026

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