

INDUSTRIAL AUTOMATION PRODUCT

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 RX3i Universal Backplane.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Emerson
System family	PACSystems RX3i I/O
Part number	IC695ALG616
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING 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.

System Role and Architecture

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 RX3i Universal Backplane.

FUNCTION 1
Exact catalog identity IC695ALG616

FUNCTION 2
RX3i 16-Channel Analog Current/Voltage Input Module

FUNCTION 3
Documented role: high-density analog current and voltage signal acquisition

FUNCTION 4
Controlled installation, diagnostics and functional verification

RELATED APTER POWER PAGES

1 General Electric IC670ALG320

2 General Electric IC670ALG310

3 General Electric IC670ALG240

4 General Electric IC670ALG230

5 General Electric IC670MFP100

6 General Electric IC670FBI001

7 General Electric IC670GBI002

8 General Electric IC670GBI001

9 General Electric DS200SBCBG1ADC

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	PACSystems RX3i I/O
02	Matched RX3i backplane, carrier or terminal block
03	Documented field wiring, commons, shields and point map
04	Approved controller project and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	PACSystems RX3i I/O
Interface role	high-density analog current and voltage signal acquisition
Field / power context	documented PACSystems RX3i backplane or distributed-I/O position
Commissioning evidence	Identity, electrical interfaces, configuration, diagnostics and controlled functional response recorded

INSTALLATION AND CONNECTION CHECKS

- 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

4

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

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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9General Electric DS200SBCBG1ADC

ENGINEERING BOUNDARY

Confirm IC695ALG616, the complete RX3i host, hardware revision, slot, terminal block, field power, wiring, grounding, shielding, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 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.

Applications and Engineering Context

PACSystems RX3i planned maintenance

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

RX3i 16-Channel Analog Current/Voltage Input Module

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.

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC695ALG616 recorded
Host / carrier	PACSystems RX3i I/O
Physical interface	Installed terminal assembly, field power and point assignments matched to the as-found record
Configuration	Approved hardware, firmware and engineering configuration restored
Functional proof	Controlled test confirms high-density analog current and voltage signal acquisition

IMPORTANT NOTICE

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Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

General Electric IC670ALG320

View General Electric IC670ALG320 page

2

General Electric IC670ALG310

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General Electric IC670ALG240

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General Electric IC670ALG230

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General Electric DS200SBCBG1ADC

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MANUFACTURER SOURCE RECORD

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

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.