

IC697BEM731

Series 90-70 Genius Bus Controller

GE IC697BEM731 is a single-channel Genius bus controller for the Series 90-70. It exchanges I/O and directed communications with documented IC660 and IC661 devices on an IC66 LAN.

BRAND	GE	MODEL	IC697BEM731
PRODUCT	Series 90-70 Genius Bus Controller	FAMILY	Series 90-70
OFFICIAL SOURCE	GE Fanuc Genius Bus Controller Data Sheet	RECORD	GFK-0165G, IC697BEM731 functions and configuration

DOCUMENT SCOPE

Official technical evidence, controlled engineering checks, model-specific FAQ and related product navigation.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 531

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



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Product Overview and Applications

SYSTEM FUNCTION

GE IC697BEM731 is a single-channel Genius bus controller for the Series 90-70. It exchanges I/O and directed communications with documented IC660 and IC661 devices on an IC66 LAN.

FUNCTION 1

Controls one Genius bus channel with up to 30 drops

FUNCTION 2

Exchanges cyclic I/O independently of the CPU scan

FUNCTION 3

Supports directed communications, COMMREQ and documented redundancy

FUNCTION 4

Provides a hand-held monitor service port and detailed fault reporting

APPLICATION	ENGINEERING CONTEXT
Distributed Genius I/O	Links documented IC660 and IC661 devices to a Series 90-70 controller.
Bus redundancy	Supports approved redundant bus or controller architectures.
Directed messaging	Transfers documented directed communications and COMMREQ data.
Network diagnostics	Uses controller and device diagnostics to isolate bus and drop faults.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE
Product family	Series 90-70
Network role	Single-channel Genius bus controller
Bus capacity	Up to 30 drops on one channel
Supported devices	IC660 and IC661 Genius I/O and documented controllers
Communications	Cyclic I/O, directed communications and COMMREQ
Redundancy	Supports documented bus and controller redundancy arrangements
Configuration	Software configured by the Series 90-70 CPU
Default baud rate	153.6 kbaud standard when no configuration is stored
Default serial bus address	31 when no configuration is stored
Service interface	Hand-held monitor port

Acceptance Path

1 IDENTITY

The complete IC697BEM731 marking and revision agree with the engineering record.

2 COMPATIBILITY

System position, companion hardware and interfaces match the manufacturer documentation.

3 CONFIGURATION

Saved values, channel mappings and protection limits are restored without unexplained change.

4 FUNCTIONAL PROOF

Diagnostics and the model-specific controlled test pass without unexplained fault.

Precautions and Model-Specific FAQ

NO.	PRECAUTION	QUESTION	ANSWER
1	Verify the complete GE IC697BEM731 marking and installed revision.	How many drops does GE IC697BEM731 support?	It supports up to 30 drops on its single Genius bus channel.
2	Confirm the documented Series 90-70 rack position and compatible companion hardware.	Which devices communicate with GE IC697BEM731?	The official data sheet identifies IC660 and IC661 Genius devices and documented controllers.
3	Back up the approved controller, network or channel configuration before removal.	How does GE IC697BEM731 transfer I/O?	It scans Genius devices asynchronously and transfers I/O data to the CPU once per scan.
4	De-energize the system and follow the current manufacturer service procedure before handling hardware.	Which communications does GE IC697BEM731 support?	It supports cyclic I/O, directed communications and COMMREQ operations.
5	Label every field, communication, common, shield and protective-ground connection.		
6	Do not substitute a neighbouring catalog number without documented engineering approval.		
7	Restore the exact configuration and verify normal module and system diagnostics.		
8	Complete a controlled model-specific functional test before production release.		

Related Products on Apter Power

MODEL	APTER POWER PAGE
Allen-Bradley 1715-TASOF8	View Allen-Bradley 1715-TASOF8
Allen-Bradley 1734-4IOL	View Allen-Bradley 1734-4IOL
Allen-Bradley 1734-AENTR	View Allen-Bradley 1734-AENTR
Allen-Bradley 1734-IB8-D	View Allen-Bradley 1734-IB8-D
Allen-Bradley 1734-IR2	View Allen-Bradley 1734-IR2
Allen-Bradley 1756-DURIO	View Allen-Bradley 1756-DURIO

FAQ, Related Products and Sources

QUESTION	ANSWER
What defaults apply to an unconfigured GE IC697BEM731?	The documented defaults are 153.6 kbaud standard and serial bus address 31.
What must be recorded before replacing GE IC697BEM731?	Record the complete GE IC697BEM731 marking, installed revision, system position, connections and approved configuration before removal.
What confirms successful commissioning of GE IC697BEM731?	The exact GE IC697BEM731 identity, restored configuration, normal diagnostics and a controlled model-specific functional test must all agree with the approved record.

MANUFACTURER SOURCE RECORDS

GE Fanuc Genius Bus Controller Data Sheet - GFK-0165G, IC697BEM731 functions and configuration
GE Fanuc Genius Bus Controller Data Sheet - GFK-0165G, IC697BEM731 functions and configuration

Related Products on Apter Power

MODEL	APTER POWER PAGE
Allen-Bradley 1756-IV32	View Allen-Bradley 1756-IV32
Allen-Bradley 1756-L1M2	View Allen-Bradley 1756-L1M2
Allen-Bradley 1756-L55M12	View Allen-Bradley 1756-L55M12
Allen-Bradley 1756-L55M13	View Allen-Bradley 1756-L55M13
Woodward 5437-2131	View Woodward 5437-2131
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