

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	GE
Complete model	IC697BEM731
Product role	Series 90-70 Genius Bus Controller
System family	Series 90-70
Source record	GFK-0165G, IC697BEM731 functions and configuration

DOCUMENT SCOPE

Model identity, official technical data, model-specific applications, precautions, FAQ and controlled acceptance records.

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IC697BEM731

Technical Specifications

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

ENGINEERING BOUNDARY

Use only the complete GE IC697BEM731 identity and the current manufacturer publication. Verify the installed revision, companion hardware, wiring and saved configuration before replacement or release.

Related Products on Apter Power

MODEL	APTER POWER PAGE
EPRO MMS6831	View EPRO MMS6831
EPRO PR6423-002-000-CON021	View EPRO PR6423-002-000-CON021
EPRO PR6423-002-001-CN-CON041	View EPRO PR6423-002-001-CN-CON041
EPRO PR6423-003-030-CON021	View EPRO PR6423-003-030-CON021
EPRO PR6423-004-120-CN-CON021	View EPRO PR6423-004-120-CN-CON021
EPRO PR6423-010-100-CN-CON021	View EPRO PR6423-010-100-CN-CON021

System Role and Common Applications

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.

ACCEPTANCE DUTY

Confirm identity, interface, companion hardware, configured values and controlled functional response before release.

Engineering Precautions and FAQ

NO.	PRECAUTION
1	Verify the complete GE IC697BEM731 marking and installed revision.
2	Confirm the documented Series 90-70 rack position and compatible companion hardware.
3	Back up the approved controller, network or channel configuration before removal.
4	De-energize the system and follow the current manufacturer service procedure before handling hardware.
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.

QUESTION	ANSWER
How many drops does GE IC697BEM731 support?	It supports up to 30 drops on its single Genius bus channel.
Which devices communicate with GE IC697BEM731?	The official data sheet identifies IC660 and IC661 Genius devices and documented controllers.
How does GE IC697BEM731 transfer I/O?	It scans Genius devices asynchronously and transfers I/O data to the CPU once per scan.
Which communications does GE IC697BEM731 support?	It supports cyclic I/O, directed communications and COMMREQ operations.

Related Products on Apter Power

MODEL	APTER POWER PAGE
EPRO PR6423-015-040	View EPRO PR6423-015-040
EPRO PR6423-018-040-CON021	View EPRO PR6423-018-040-CON021
EPRO PR6423-018-140-CON021	View EPRO PR6423-018-140-CON021
EPRO PR6423-01K-010	View EPRO PR6423-01K-010
EPRO PR6424-014-140-CON021	View EPRO PR6424-014-140-CON021
EPRO PR6426-010-040-CON021-916-120	View EPRO PR6426-010-040-CON021-916-120

FAQ, Related Products and Official 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.

MODEL	APTER POWER PAGE
Allen-Bradley 1203-GD1	View Allen-Bradley 1203-GD1
Allen-Bradley 1203-GU6	View Allen-Bradley 1203-GU6
Allen-Bradley 1305-BA01A-HA2	View Allen-Bradley 1305-BA01A-HA2
Allen-Bradley 1305-BA03A	View Allen-Bradley 1305-BA03A
Allen-Bradley 1336-L4-42336-200-51	View Allen-Bradley 1336-L4-42336-200-51
Allen-Bradley 1336-PB-SP23C	View Allen-Bradley 1336-PB-SP23C

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

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