

IC660BBA020

24/48 VDC 4-Input/2-Output Analog Block

GE IC660BBA020 is the documented 24/48 VDC 4-Input/2-Output Analog Block for the Genius I/O.

IDENTITY	VERIFIED VALUE
Manufacturer	General Electric
System family	Genius I/O
Part number	IC660BBA020
Product role	Provides the documented 24/48 vdc 4-input/2-output analog block function
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

Install IC660BBA020 only in the documented Genius I/O position. Preserve the as-found terminal mapping and configuration, then verify diagnostics and the affected field function under controlled conditions.

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WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



IC660BBA020

Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
Analog inputs	4	Resolution	12 bit plus sign
Analog outputs	2	Update frequency	Every 4 ms
Block power	24/48 V DC	Block isolation	1500 V
Supply range	18 to 56 V DC	Heat dissipation	6 W
Signal ranges	0 to 10 V; +/-10 V; +/-5 V; 0 to 5 V; 4 to 20 mA		

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Genius I/O
Primary system role	Provides the documented 24/48 vdc 4-input/2-output analog block function
Connection boundary	Install IC660BBA020 only in the documented Genius I/O position. Preserve the as-found terminal mapping and configuration, then verify diagnostics and the affected field function under controlled conditions.
Controlled acceptance duty	Genius I/O station maintenance

ENGINEERING BOUNDARY

Confirm IC660BBA020, host, terminals, power grouping, point map and controlled test results before release.

Pre-Installation Checks

1	Confirm the full IC660BBA020 catalog marking and installed Genius I/O position before work.	2	Isolate the station supply and connected field energy using the approved procedure.
3	Record every terminal, common, shield, connector and configured point before removal.	4	Use ESD controls and protect backplane, terminal and connector contacts from contamination.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	IC660BBA020
Installed host	Genius I/O
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

GE IC660BBA020 is the documented 24/48 VDC 4-Input/2-Output Analog Block for the Genius I/O.

FUNCTION 1
Provides the documented 24/48 vdc 4-input/2-output analog block function

FUNCTION 2
Uses exact catalog identity IC660BBA020 for replacement control

FUNCTION 3
Integrates with the matched Genius I/O hardware

FUNCTION 4
Supports controlled connection checks and functional verification

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Genius I/O
2	2
3	Genius I/O station maintenance
4	Install IC660BBA020 only in the documented Genius I/O position. Preserve the as-found terminal mapping and configuration, then verify diagnostics and the affected field function under controlled conditions.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Genius I/O
Interface role	Provides the documented 24/48 vdc 4-input/2-output analog block function
Field / power context	The component is used with the exact terminal assembly, carrier, power grouping and bus configuration identified for IC660BBA020. Commissioning preserves the installed point map and verifies controlled field response.
Commissioning evidence	Complete a controlled signal or load test before returning the station to service.

Installation and Connection Checks

1

Verify each documented value for IC660BBA020 against the installed host and field circuit.

2

Restore the approved terminal assembly, power grouping and configuration record.

3

Energize in the prescribed sequence and review module, bus and point diagnostics.

4

Complete a controlled signal or load test before returning the station to service.

MANUFACTURER SOURCE RECORD

Genius I/O Discrete and Analog Blocks User's Manual
GEK-90486D-2, September 1993

Applications and Engineering Context

Genius I/O station maintenance

Restores the documented 24/48 vdc 4-input/2-output analog block function in an engineered station.

Distributed I/O refurbishment

Uses exact IC660BBA020 identity when rebuilding the recorded field interface.

Control-panel modernization

Preserves the approved terminal, power and communications arrangement during migration work.

Controlled recommissioning

Verifies point mapping, diagnostics and field response before process release.

TECHNICAL NOTE

Install IC660BBA020 only in the documented Genius I/O position. Preserve the as-found terminal mapping and configuration, then verify diagnostics and the affected field function under controlled conditions.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	IC660BBA020 recorded
Host / carrier	Genius I/O
Physical interface	Provides the documented 24/48 vdc 4-input/2-output analog block function
Configuration	Energize in the prescribed sequence and review module, bus and point diagnostics.
Functional proof	Complete a controlled signal or load test before returning the station to service.

IMPORTANT NOTICE

Confirm IC660BBA020, host, terminals, power grouping, point map and controlled test results before release.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	IC660BBA020
Approved role	Genius I/O station maintenance
Final validation	Complete a controlled signal or load test before returning the station to service.

Engineering Precautions

- 1

Confirm the full IC660BBA020 catalog marking and installed Genius I/O position before work.
- 2

Isolate the station supply and connected field energy using the approved procedure.
- 3

Record every terminal, common, shield, connector and configured point before removal.
- 4

Use ESD controls and protect backplane, terminal and connector contacts from contamination.
- 5

Verify each documented value for IC660BBA020 against the installed host and field circuit.
- 6

Restore the approved terminal assembly, power grouping and configuration record.
- 7

Energize in the prescribed sequence and review module, bus and point diagnostics.
- 8

Complete a controlled signal or load test before returning the station to service.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC693CPU374-158503	product page	View IC693CPU374-158503 page
IC695ALG312	product page	View IC695ALG312 page
IC695ALG508	product page	View IC695ALG508 page
IC693PTM101A	product page	View IC693PTM101A page
IC695CMX128	product page	View IC695CMX128 page
IC693CPU363-DL	product page	View IC693CPU363-DL page
IC200MDL940F	product page	View IC200MDL940F page
IC660ERD024C1	product page	View IC660ERD024C1 page

MANUFACTURER SOURCE RECORD

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GEK-90486D-2, September 1993

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