APTER POWER

INDUSTRIAL AUTOMATION PRODUCT

IC660BBA021

24/48 VDC RTD Input Block

GE IC660BBA021 is the documented 24/48 VDC RTD Input Block for the Genius I/O.

IDENTITY	VERIFIED VALUE
Manufacturer	General Electric
System family	Genius I/O
Part number	IC660BBA021
Product role	Provides the documented 24/48 vdc rtd input 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 IC660BBA021 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.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com

IC660BBA021

PRODUCT TECHNICAL REFERENCE

Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
RTD inputs	6	Block isolation	1500 V
Input grouping	Three groups of two	Group isolation	300 V
Block power	24/48 V DC	Heat dissipation	7 W maximum
Supply range	18 to 56 V DC	Status indicators	Unit OK; I/O Enabled

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Genius I/O
Primary system role	Provides the documented 24/48 vdc rtd input block function
Connection boundary	Install IC660BBA021 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 IC660BBA021, host, terminals, power grouping, point map and controlled test results before release.

Pre-Installation Checks

1. Confirm the full IC660BBA021 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	IC660BBA021
Installed host	Genius I/O
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

GE IC660BBA021 is the documented 24/48 VDC RTD Input Block for the Genius I/O.

FUNCTION 1

Provides the documented 24/48 vdc rtd input block function

FUNCTION 2

Uses exact catalog identity IC660BBA021 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	Three groups of two
3	Genius I/O station maintenance
4	Install IC660BBA021 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 rtd input block function
Field / power context	The component is used with the exact terminal assembly, carrier, power grouping and bus configuration identified for IC660BBA021. 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 IC660BBA021 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 rtd input block function in an engineered station.

Distributed I/O refurbishment

Uses exact IC660BBA021 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 IC660BBA021 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	IC660BBA021 recorded
Host / carrier	Genius I/O
Physical interface	Provides the documented 24/48 vdc rtd input 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 IC660BBA021, host, terminals, power grouping, point map and controlled test results before release.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	IC660BBA021
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 IC660BBA021 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 IC660BBA021 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
IC693ALG442C	product page	View IC693ALG442C page
IC693DNM200-BC	product page	View IC693DNM200-BC page
DS3800NERA1P1D	product page	View DS3800NERA1P1D page
IS200SRTDH2ACB	product page	View IS200SRTDH2ACB page
IS210AEDBH4A	product page	View IS210AEDBH4A page
IS200TDBSH2A	product page	View IS200TDBSH2A page
IS210AEPSG2BCB	product page	View IS210AEPSG2BCB page
IS215UCVEM01A	product page	View IS215UCVEM01A page

MANUFACTURER SOURCE RECORD

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