

INDUSTRIAL AUTOMATION PRODUCT

IC660BBD021

24/48 VDC 16-circuit Sink I/O Block

GE IC660BBD021 is a 24/48 VDC 16-circuit Sink I/O Block for the GE Genius I/O. It provides the documented field interface or control function in the configured system.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	General Electric
System family	GE Genius I/O
Part number	IC660BBD021
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 IC660BBD021 only in the documented GE Genius I/O position. Preserve the as-found terminal mapping and configuration, then verify diagnostics and the affected field function under controlled conditions.

System Role and Architecture

GE IC660BBD021 is a 24/48 VDC 16-circuit Sink I/O Block for the GE Genius I/O. It provides the documented field interface or control function in the configured system.

FUNCTION 1
Provides the documented 24/48 vdc 16-circuit sink i/o block function

FUNCTION 2
Uses exact catalog identity IC660BBD021 for replacement control

FUNCTION 3
Integrates with the matched GE Genius I/O hardware

FUNCTION 4
Supports controlled connection checks and functional verification

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	GE Genius I/O
02	Matched extension cable and ClickLoc connector loop
03	3300 XL Proximity Sensor host channel
04	AISI 4140 steel target or approved equivalent

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	GE Genius I/O
Interface role	24/48 VDC 16-circuit Sink I/O Block
Field / power context	Matched GE Genius bus, terminal assembly and configured host system
Commissioning evidence	Identity, gap, polarity, response and alarm diagnostics recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the full IC660BBD021 catalog marking and installed GE 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.

Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
Discrete circuits	16	Field devices	Three-wire solid-state and electromechanical sensors
Output logic	Sink / current sinking	Block isolation	1500 V
Operating voltage	18 to 56 VDC	Heat dissipation	68.8 W maximum with sixteen 2 A outputs
Supply ripple	10% maximum	Status indicators	Unit OK, I/O Enabled and individual circuit LEDs

RELATED GE PRODUCT PAGES

1GE PCIE-5565PIORC-100A00

2GE A06B-6096-H106

3GE A06B-6096-H104

4GE A06B-6087-H155

5GE HE693ADC415

6GE A06B-6102-H245-H520

7GE IS200WROBH1AAA

8GE IS200STCIH2A

9GE IC695PNS001

ENGINEERING BOUNDARY

Confirm IC660BBD021, GE Genius I/O host, hardware revision, terminal or connector type, power and signal ranges, wiring, grounding, bus configuration, companion accessories and controlled commissioning results before service release.

PRE-INSTALLATION CHECKS

- 1

Confirm the full IC660BBD021 catalog marking and installed GE 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.

Applications and Engineering Context

GE Genius I/O station maintenance

Restores the documented 24/48 vdc 16-circuit sink i/o block function in an engineered station.

Distributed I/O refurbishment

Uses exact IC660BBD021 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 IC660BBD021 only in the documented GE 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	IC660BBD021 recorded
Host / carrier	GE Genius I/O
Physical interface	Exact model, bus position, terminals and connected field circuits matched
Configuration	Device number, I/O assignments and approved configuration restored
Functional proof	Controlled diagnostics and field-response test recorded

IMPORTANT NOTICE

Confirm IC660BBD021, GE Genius I/O host, hardware revision, terminal or connector type, power and signal ranges, wiring, grounding, bus configuration, companion accessories and controlled commissioning results before service release.

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

GE PCIE-5565PIORC-100A00

View GE PCIE-5565PIORC-100A00 page

2

GE A06B-6096-H106

View GE A06B-6096-H106 page

3

GE A06B-6096-H104

View GE A06B-6096-H104 page

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GE A06B-6087-H155

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GE HE693ADC415

View GE HE693ADC415 page

6

GE A06B-6102-H245-H520

View GE A06B-6102-H245-H520 page

7

GE IS200WROBH1AAA

View GE IS200WROBH1AAA page

8

GE IS200STCIH2A

View GE IS200STCIH2A page

9

GE IC695PNS001

View GE IC695PNS001 page

MANUFACTURER SOURCE RECORD

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

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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.