

IC660BBD021

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

Official GE Genius I/O reference for the documented 24/48 vdc 16-circuit sink i/o block.

PRODUCT SNAPSHOT

BRAND
General Electric

FAMILY
GE Genius I/O

PART
IC660BBD021

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

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PRODUCT OVERVIEW

IC660BBD021 provides the documented 24/48 vdc 16-circuit sink i/o block role for a matched GE Genius I/O installation.

-  Provides the documented 24/48 vdc 16-circuit sink i/o block function
-  Uses exact catalog identity IC660BBD021 for replacement control
-  Integrates with the matched GE Genius I/O hardware
-  Supports controlled connection checks and functional verification

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
IC660BBD021 product block	Matched Genius bus controller
Documented field wiring	Approved host configuration

ENGINEERING CONTEXT

The component is used with the exact terminal assembly, carrier, power grouping and bus configuration identified for IC660BBD021. Commissioning preserves the installed point map and verifies controlled field response.

TECHNICAL DATA

PARAMETER	VALUE
Discrete circuits	16
Output logic	Sink / current sinking
Operating voltage	18 to 56 VDC
Supply ripple	10% maximum

PARAMETER	VALUE
Field devices	Three-wire solid-state and electromechanical sensors
Block isolation	1500 V
Heat dissipation	68.8 W maximum with sixteen 2 A outputs
Status indicators	Unit OK, I/O Enabled and individual circuit LEDs

RELATED GE PRODUCT PAGES

1GE HE693ADC415

2GE A06B-6102-H245-H520

3GE IS200WROBH1AAA

4GE IS200STCIH2A

5GE IC695PNS001

6GE PCIE-5565PIORC-100A00

7GE A06B-6096-H106

8GE A06B-6096-H104

9GE A06B-6087-H155

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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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.

PRODUCT PRECAUTIONS

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.

5

Verify each documented value for IC660BBD021 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.

ENGINEER FAQ

Q1 How is IC660BBD021 identified?

Match the complete catalog number and the 24/48 VDC 16-circuit Sink I/O Block designation.

Q2 Which system accepts IC660BBD021?

Use the documented GE Genius I/O carrier, terminal and bus arrangement.

Q3 What records are retained before removing IC660BBD021?

Record terminals, commons, shields, connectors, point mapping and diagnostics.

Q4 How is IC660BBD021 isolated safely?

Isolate station and field supplies, prove the safe state and apply ESD controls.

Q5 Which official values govern IC660BBD021?

Discrete circuits: 16; Output logic: Sink / current sinking; Operating voltage: 18 to 56 VDC; Supply ripple: 10% maximum.

Q6 How is IC660BBD021 configuration restored?

Restore the approved hardware execution, power grouping and point map.

Q7 Which diagnostics follow IC660BBD021 energization?

Review module, bus and channel status in the prescribed startup sequence.

Q8 What releases IC660BBD021 to service?

A controlled signal or load test with the expected field response and no active diagnostic.

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

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