

INDUSTRIAL AUTOMATION PRODUCT

IC660BBD120

Genius High-speed Counter Block

GE IC660BBD120 is a Genius High-speed Counter 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	IC660BBD120
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 IC660BBD120 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 IC660BBD120 is a Genius High-speed Counter 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 genius high-speed counter block function

FUNCTION 2
Uses exact catalog identity IC660BBD120 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	Genius High-speed Counter 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 IC660BBD120 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
Counter inputs	12	Maximum count rate	200 kHz high range; 40 Hz low range
Counter outputs	4	Input impedance	4 kohm
Counter configurations	Four Type A, two Type B or one Type C	Logic supply	4.75 to 5.25 VDC, 200 mA
Input voltage	5 to 30 VDC	Output current	0.5 A per point; 2 A per block
Selectable input filters	2.5 us or 12.5 ms	Output inrush	3 A for 10 ms

RELATED GE PRODUCT PAGES

1GE IS2020JPDCG1ACB

2GE IS200EISBH1AAA

3GE WESDAC-D20ME-GE-HARRIS-820-0468-00

4GE IS200BPIBG1A-C2-A0IS200BPIBG1AEB

5GE IS200ECGIH1A-C2-A0IS200ECGIH1APR2

6GE IC693CPU374-158503

7GE IC695ALG312

8GE IC695ALG508

9GE IC693PTM101A

ENGINEERING BOUNDARY

Confirm IC660BBD120, 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 IC660BBD120 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 genius high-speed counter block function in an engineered station.

Distributed I/O refurbishment

Uses exact IC660BBD120 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 IC660BBD120 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	IC660BBD120 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 IC660BBD120, 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 IS2020JPDCG1ACB

View GE IS2020JPDCG1ACB page

2

GE IS200EISBH1AAA

View GE IS200EISBH1AAA page

3

GE WESDAC-D20ME-GE-HARRIS-820-0468-00

View GE WESDAC-D20ME-GE-HARRIS-820-0468-00 page

4

GE IS200BPIBG1A-C2-A0IS200BPIBG1AEB

View GE IS200BPIBG1A-C2-A0IS200BPIBG1AEB page

5

GE IS200ECGIH1A-C2-A0IS200ECGIH1APR2

View GE IS200ECGIH1A-C2-A0IS200ECGIH1APR2 page

6

GE IC693CPU374-158503

View GE IC693CPU374-158503 page

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GE IC695ALG312

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GE IC695ALG508

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GE IC693PTM101A

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MANUFACTURER SOURCE RECORD

Genius High-speed Counter User's Manual | GE Fanuc GFK-0415E, May 1994

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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.