

INDUSTRIAL AUTOMATION PRODUCT

IC670PBI001

GE Fanuc Field Control PROFIBUS-DP Bus Interface Unit

Bidirectional PROFIBUS-DP network data, configuration and diagnostic traffic

IDENTITY	VERIFIED VALUE
Manufacturer	GE
System family	GE Fanuc Field Control distributed I/O
Part number	IC670PBI001
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

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Technical Specifications

Technical values below are limited to the named GE product record.

PARAMETER	TECHNICAL VALUE
Catalog number	IC670PBI001
Network	PROFIBUS-DP
Station capacity	Up to 8 Field Control I/O modules
Nominal input voltage	24 V DC
Input-voltage range	18 to 30 V DC
Maximum input power	16.8 W at full load
Inrush current	15 to 50 A peak; 3 ms maximum
I/O supply output	6.5 V DC +/-5%; 1.4 A maximum
Hold-up time	10 ms from nominal input
PROFIBUS address range	1 to 126
Operating temperature	0 to 55 degC
Storage temperature	-40 to 85 degC
Relative humidity	5 to 95%; noncondensing
BIU MTBF	>183,000 h

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System Role and Architecture

Bidirectional PROFIBUS-DP network data, configuration and diagnostic traffic

FUNCTION 1

Connects the station to PROFIBUS-DP

FUNCTION 2

Supports up to eight Field Control I/O modules

FUNCTION 3

Exchanges configured input and output data with the host

FUNCTION 4

Provides station and module diagnostic access

Matched system components

- PROFIBUS-DP network
- Field Control terminal block
- Up to eight compatible I/O modules
- 24 V DC station power

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	PROFIBUS-DP network
Companion hardware	Field Control terminal block
Field connection	Up to eight compatible I/O modules
Primary system function	Connects the station to PROFIBUS-DP
Controlled acceptance duty	PROFIBUS-DP bus interface field station

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Applications and Engineering Context

PROFIBUS-DP bus interface field station

Connects the station to PROFIBUS-DP

Remote I/O cabinet integration

Supports up to eight Field Control I/O modules

Installed-base module renewal

Exchanges configured input and output data with the host

Controlled commissioning and diagnostics

Provides station and module diagnostic access

TECHNICAL NOTE

Confirm IC670PBI001, 24 V DC station power, network address, bus termination and the configured I/O map before connecting the station to the host.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC670PBI001 / IC670PBI001 recorded
Physical interface	PROFIBUS-DP network
Companion check	Field Control terminal block
Functional proof	Connects the station to PROFIBUS-DP
Application test	PROFIBUS-DP bus interface field station

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Engineering Precautions

- 1 Verify the complete IC670PBI001 catalog marking and assigned Field Control position before work.
- 2 Place the connected PROFIBUS-DP process in its approved maintenance state before disturbing the station.
- 3 Isolate BIU and field power, then confirm a safe condition at the IC670PBI001 terminal block.
- 4 Label and record network conductors, shield, termination and field-power wiring before disconnecting any conductor from IC670PBI001.
- 5 Use ESD controls and protect the module connector, terminal block keying and exposed electronics.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC660BRD020	Related GE product	View IC660BRD020 page
IC693CBL316	Related GE product	View IC693CBL316 page
URRHH	Related GE product	View URRHH page
IC694MDL742	Related GE product	View IC694MDL742 page
IC200ALG230	Related GE product	View IC200ALG230 page
IC695CHS016	Related GE product	View IC695CHS016 page
UR7HH	Related GE product	View UR7HH page
IS220UCSAH1A	Related GE product	View IS220UCSAH1A page

MANUFACTURER SOURCE RECORD

GE Fanuc Field Control Profibus Bus Interface Unit User's Manual
GFK-1291A

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