

INDUSTRIAL AUTOMATION PRODUCT

IC670MDL640

GE Fanuc sixteen-point 24 VDC positive/negative discrete input module

Sixteen 24 VDC source or sink discrete input states

IDENTITY	VERIFIED VALUE
Manufacturer	GE
System family	GE Fanuc Field Control distributed I/O
Part number	IC670MDL640
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

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



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Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Catalog number	IC670MDL640
Input points	16; single group
Logic selection	All positive or all negative
Rated voltage	24 V DC
Input-voltage range	0 to 30 V DC
Typical input current	7.5 mA per point at 24 V DC
Input data	16 bits; 2 bytes
Input impedance	3 kohm typical
Positive on-state voltage	+15 to +30 V DC
Negative on-state voltage	-15 to -30 V DC
Off-state magnitude	0 to 5 V DC
On-state current	3.0 to 8.0 mA
Off-state current	0 to 1.5 mA
On/off response	6 ms typical; 10 ms maximum
BIU current	75 mA typical; 83 mA maximum

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System Role and Architecture

Sixteen 24 VDC source or sink discrete input states

FUNCTION 1

Provides sixteen 24 VDC inputs

FUNCTION 2

Supports positive or negative logic for the whole group

FUNCTION 3

Transfers two bytes of discrete data

FUNCTION 4

Filters and optically isolates the field-input state

Matched system components

- 24 V DC field supply
- Sixteen source or sink input devices
- Field Control terminal block
- Compatible BIU or MFP

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	24 V DC field supply
Companion hardware	Sixteen source or sink input devices
Field connection	Field Control terminal block
Primary system function	Provides sixteen 24 VDC inputs
Controlled acceptance duty	positive- or negative-logic 24 VDC input acquisition field station

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Applications and Engineering Context

positive- or negative-logic 24 VDC input acquisition field station

Provides sixteen 24 VDC inputs

Remote I/O cabinet integration

Supports positive or negative logic for the whole group

Installed-base module renewal

Transfers two bytes of discrete data

Controlled commissioning and diagnostics

Filters and optically isolates the field-input state

TECHNICAL NOTE

Wire all sixteen points for the same positive or negative logic, confirm supply polarity and verify the 15 V on-state threshold before acceptance.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC670MDL640 / IC670MDL640 recorded
Physical interface	24 V DC field supply
Companion check	Sixteen source or sink input devices
Functional proof	Provides sixteen 24 VDC inputs
Application test	positive- or negative-logic 24 VDC input acquisition field station

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Engineering Precautions

- 1 Verify the complete IC670MDL640 catalog marking and assigned Field Control position before work.
- 2 Place the connected positive- or negative-logic 24 VDC input acquisition process in its approved maintenance state before disturbing the station.
- 3 Isolate BIU and field power, then confirm a safe condition at the IC670MDL640 terminal block.
- 4 Label and record individual point conductors, group commons and field-power feeds before disconnecting any conductor from IC670MDL640.
- 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
IC695PSD040	Related GE product	View IC695PSD040 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

MANUFACTURER SOURCE RECORD

GE Fanuc Field Control Distributed I/O and Control System I/O Modules User's Manual
GFK-0826J, June 2002

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WEBSITE www.apterpower.com

