General Electric HE693PBM101F

TECHNICAL REFERENCE / EXACT-MODEL ENGINEERING FILE

General Electric HE693PBM101F is a series 90-30 profibus dp master module for the GE Fanuc Series 90-30 PLC platform. The complete marking and installed hardware arrangement must be matched before replacement.

01 Product position and evidence boundary

Complete identity	HE693PBM101F
Product type	Series 90-30 PROFIBUS DP Master Module
System position	GE Fanuc Series 90-30 PLC platform
Evidence scope	Applicable manufacturer documentation establishes the HE693PBM101 PROFIBUS DP master base design, Series 90-30 integration, network limits, configuration areas and diagnostic indicators. The F suffix remains a nameplate revision boundary.

Decision snapshot

Identity control
Compare every token in HE693PBM101F with the installed label and the applicable manufacturer document.

Interface control
Follow the Series 90-30 service procedure before removing or inserting the module.

Configuration control
Check the 9-pin connector, type-A cable, shield bond and both powered terminations.

Acceptance control
Verify slave diagnostics, input/output mapping and OK/RUN/POWER indications after commissioning.

Related product references

- General Electric IC695PNC001
- General Electric IS220PPROH1A
- General Electric DS200TBCAG1AAB
- General Electric 531X123PCHACG1
- General Electric 531X303MCPBCG1
- General Electric IS230SNTCH4A
- General Electric IS230SNAIH2A
- General Electric IS230TNTRH1C

Engineering record prompts

Nameplate record	Capture the complete marking, visible revision and installed position before removal.
Connector record	Photograph every used connector, cable label, keying feature and shield termination.
Host record	Identify the carrier, rack, drive, chassis or operator station that owns the installed position.

02 Verified technical data

Applicable manufacturer documentation establishes the HE693PBM101 PROFIBUS DP master base design, Series 90-30 integration, network limits, configuration areas and diagnostic indicators. The F suffix remains a nameplate revision boundary.

Base design	HE693PBM101 PROFIBUS Master
Suffix boundary	F treated as a hardware/firmware revision; verify the actual nameplate
Network role	PROFIBUS DP master only; FMS and PA are not supported
Base-model processor speed	24 MHz
Maximum slaves	64
Maximum devices per segment without repeaters	32
Maximum devices per segment with repeaters	64
Maximum data produced	504

Exact-model interpretation

Complete identity	Use HE693PBM101F as one complete reference in the quotation, service record and acceptance file.
Installed position	Record the exact host position and functional ownership within the GE Fanuc Series 90-30 PLC platform.
Physical execution	Compare artwork, connectors, keying, terminal hardware and orientation with the removed assembly.
Configuration boundary	Preserve the applicable project, address, firmware or hardware-setting record before removal.

Related product references

- General Electric DS200TBCAG1AAB
- General Electric 531X123PCHACG1
- General Electric 531X303MCPBCG1
- General Electric IS230SNTCH4A
- General Electric IS230SNAIH2A
- General Electric IS230TNTRH1C
- General Electric IC695PNC001
- General Electric IS220PPROH1A

Engineering record prompts

Host record	Identify the carrier, rack, drive, chassis or operator station that owns the installed position.
Configuration record	Archive the applicable project, address, parameter, firmware or hardware-setting evidence.

03 Interfaces and installed-system relationship

Maximum diagnostic plus consumed data	504
Maximum modules / areas	128
Required CPU	CPU350 or higher
Required CPU firmware	Version 8.0 or higher
Configuration software	VersaPro 1.10 or higher
Status LEDs	OK, RUN and POWER
Data rates	9.6 kbit/s to 12 Mbit/s
Segment length at 9.6, 19.2 or 93.75 kbit/s	1200 m

Application and compatibility decisions

PROFIBUS DP master
Control distributed I/O and field devices over the documented master-slave network.

Series 90-30 integration
Use with CPU350-or-higher hardware and the approved PLC firmware and VersaPro project.

Network expansion
Apply repeaters and segment limits when the station count or cable length exceeds one segment.

Legacy-system maintenance
Retain the F revision, slave map and network diagnostics with the spare or replacement record.

System relationship

HE693PBM101F is handled as an F-revision execution of the HE693PBM101 base design. Applicable manufacturer documentation establishes a PROFIBUS DP master for the Series 90-30 platform; it does not define a separate F-suffix functional branch.

The base module operates at 24 MHz, supports up to 64 slaves and maps as many as 128 modules or areas. It requires a CPU350-or-higher host, firmware version 8.0 or later and VersaPro 1.10 or later for configuration.

Related product references

- General Electric 531X303MCPBCG1
- General Electric IS230SNTCH4A
- General Electric IS230SNAIH2A
- General Electric IS230TNTRH1C
- General Electric IC695PNC001
- General Electric IS220PPROH1A
- General Electric DS200TBCAG1AAB
- General Electric 531X123PCHACG1

04 Configuration and diagnostic logic

Segment length at 187.5 kbit/s	600 m
Segment length at 500 kbit/s to 6 Mbit/s	200 m
Segment length at 12 Mbit/s	100 m
Required power	4 W at 5 VDC
Operating temperature	0 to 60 °C
Relative humidity	5 to 95% non-condensing

Product-specific diagnostic starting points

Identity	Confirm the complete marking, artwork and installed position.
Interface map	Restore connectors and cables only from the approved as-found record.
Controlled power-up	Observe host and unit indications before enabling the process function.
Functional proof	Test the intended series 90-30 profibus dp master module role and retain diagnostics with the handover.

Engineering questions

How should HE693PBM101F be identified before replacement?	Match the complete HE693PBM101F label, the F revision marker, front connector and installed Series 90-30 slot before replacement.
What installed interfaces must be checked for HE693PBM101F?	Verify the Series 90-30 backplane connection, PROFIBUS connector, shield termination and network-segment position used by HE693PBM101F.
Which configuration values must be preserved before removing HE693PBM101F?	Archive the slave addresses, GSD-derived module definitions, mapped PLC areas and VersaPro project associated with HE693PBM101F.

Related product references

- General Electric IS220PPROH1A
- General Electric DS200TBCAG1AAB
- General Electric 531X123PCHACG1
- General Electric 531X303MCPBCG1
- General Electric IS230SNTCH4A
- General Electric IS230SNAIH2A
- General Electric IS230TNTRH1C
- General Electric IC695PNC001

Engineering record prompts

Connector record	Photograph every used connector, cable label, keying feature and shield termination.

05 Acceptance, lifecycle and handover

What should be checked before energizing HE693PBM101F?	Confirm a CPU350-or-higher host, firmware 8.0 or later, 5 VDC backplane power and the approved PROFIBUS topology for HE693PBM101F.
How can a suspected HE693PBM101F fault be separated from an external fault?	Check backplane power, OK/RUN/POWER LEDs, termination, cable continuity and slave diagnostics before replacing HE693PBM101F.
What proves that HE693PBM101F is operating correctly after installation?	A controlled network test must show the expected slaves, mapped data and stable OK/RUN indications for HE693PBM101F.

Lifecycle Status

HE693PBM101F status	Legacy product documentation lists HE693PBM101 under legacy documentation; the present commercial phase of the F revision has not been confirmed.
Revision boundary	The F suffix is treated as a hardware or firmware revision of the PBM101 base design, not as a separately documented function.
Service planning	Preserve the Series 90-30 CPU level, firmware, PROFIBUS topology and VersaPro project when qualifying a replacement.

Evidence and applicability

Revision check	Verify the F suffix on the actual HE693PBM101F label before approving firmware or hardware equivalence.
Network limits	Match the configured baud rate to its maximum segment length and confirm powered termination at both ends of the PROFIBUS segment.
Host relationship	Use CPU350 or higher, firmware 8.0 or later and the archived VersaPro configuration for the installed data map.

Related product references

- General Electric 531X123PCHACG1
- General Electric 531X303MCPBCG1
- General Electric IS230SNTCH4A
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- General Electric IS230TNTRH1C
- General Electric IC695PNC001
- General Electric IS220PPROH1A
- General Electric DS200TBCAG1AAB

Engineering record prompts

Configuration record	Archive the applicable project, address, parameter, firmware or hardware-setting evidence.
Supply-scope record	List terminal blocks, carriers, plugs, cables and accessories separately in the quotation.
Baseline result	Record initial indications, diagnostics and the controlled-system condition before work.
Identity decision	Approve only the complete order code and observed execution; do not shorten the family name.

Discuss the complete HE693PBM101F marking with Apter Power.

sales13@apterpower.com | +86 18030235313

Scan the WhatsApp QR to share nameplate and installed-system evidence.