

DC-TFB412 51307618-176

DC-TFB412 Redundant Fieldbus IOTA

Honeywell DC-TFB412 51307618-176 is a redundant Series C Fieldbus Interface Module IOTA. It supports the documented non-redundant FIM position, H1 fieldbus power and redundant FTE connections used by the Series C FIM solution.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Experion PKS Series C Fieldbus Interface
Part number	DC-TFB412 51307618-176
Document status	Controlled product and system reference

DOCUMENT SCOPE

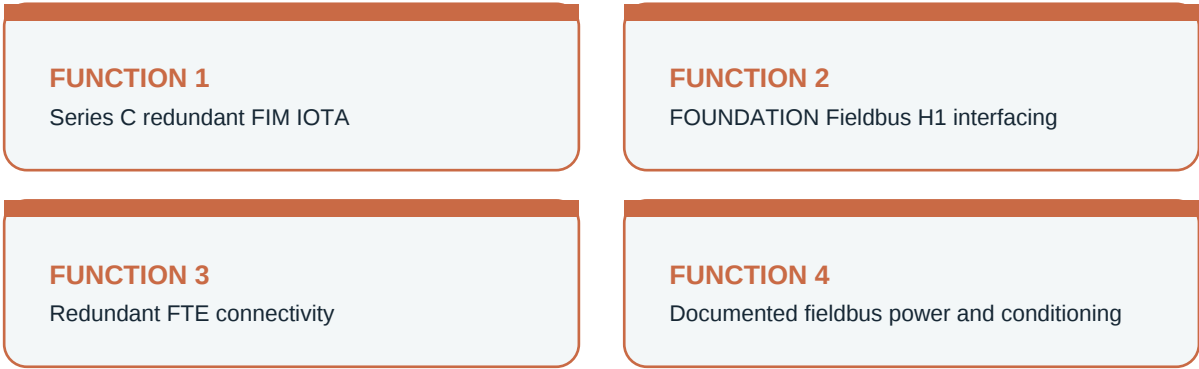
Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install DC-TFB412 51307618-176 only in the documented Experion PKS Series C Fieldbus Interface position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and termination and fieldbus-power interfacing for a Series C Fieldbus Interface Module before release.

System Role and Architecture

Honeywell DC-TFB412 51307618-176 is a redundant Series C Fieldbus Interface Module IOTA. It supports the documented non-redundant FIM position, H1 fieldbus power and redundant FTE connections used by the Series C FIM solution.



RELATED APTER POWER PAGES		
1	General Electric DS200SDCIG1AFB	2
3	General Electric IS400JPDHG1A	General Electric IS200EMIOH1AFB
4	General Electric IS200TBAIH1CCC	5
6	General Electric ICRXIBN7M000A-BA	General Electric MIVII1000E00HI00
7	General Electric IS215WETAH1A	8
9	General Electric IC200ALG620	General Electric IC693PWR331D

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Experion PKS Series C Fieldbus Interface
02	Matched Experion PKS Series C Fieldbus Interface host and field interface
03	Documented power, signal, communication and grounding connections
04	Approved configuration, diagnostics and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Experion PKS Series C Fieldbus Interface
Interface role	termination and fieldbus-power interfacing for a Series C Fieldbus Interface Module
Field / power context	documented Experion PKS Series C Fieldbus Interface installed position
Commissioning evidence	Identity, wiring, configuration, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

1	Confirm DC-TFB412 and item number 51307618-176 on the IOTA record.	2	Place the controller, FIM and all affected H1 loops in the approved maintenance state.
3	Record FTE paths, H1 links, device schedule, power conditioning and terminators.	4	Apply the documented ESD and electrical precautions before service.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Product type	Redundant Fieldbus Interface Module IOTA	Supported H1 current	Up to 350 mA for the documented
IOTA model	DC-TFB412	Device capacity	Up to 16 mounted devices on a documented H1 link
Manufacturer item number	51307618-176	FTE connections	Redundant yellow and green paths
System	Experion PKS Series C FIM	Grounding	Documented solid-copper grounding conductor
Mounted module arrangement	Non-redundant FIM in the documented upper slot	Service	Removal and insertion under power only with prescribed
Fieldbus	FOUNDATION Fieldbus H1	ESD control	Required
Fieldbus power	User-supplied power and conditioning for each H1 link	Commissioning scope	FTE paths, H1 power, terminators, device schedule

RELATED PRODUCT PAGES

1General Electric DS200SDCIG1AFB

2General Electric IS400JPDHG1A

3General Electric IS200EMIOH1AFB

4General Electric IS200TBAIH1CCC

5General Electric ICRXIBN7M000A-BA

6General Electric MIVII1000E00HI00

7General Electric IS215WETAH1A

8General Electric IC200ALG620

9General Electric IC693PWR331D

ENGINEERING BOUNDARY

Confirm DC-TFB412 51307618-176, its exact host, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

Confirm DC-TFB412 and item number 51307618-176 on the IOTA record.
- 2

Place the controller, FIM and all affected H1 loops in the approved maintenance state.
- 3

Record FTE paths, H1 links, device schedule, power conditioning and terminators.
- 4

Apply the documented ESD and electrical precautions before service.

Applications and Engineering Context

Series C H1 fieldbus segment

Connects the documented FOUNDATION Fieldbus devices to a Series C FIM.

Redundant FTE fieldbus interface

Restores the approved yellow and green network paths.

Fieldbus power conditioning

Distributes the user-supplied H1 power through the documented arrangement.

FIM IOTA replacement

Preserves device schedule, H1 polarity, terminators and communication diagnostics.

TECHNICAL NOTE

Install DC-TFB412 51307618-176 only in the documented Experion PKS Series C Fieldbus Interface position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and termination and fieldbus-power interfacing for a Series C Fieldbus Interface Module before release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	DC-TFB412 51307618-176 recorded
Host / carrier	Experion PKS Series C Fieldbus Interface
Physical interface	Installed terminals, ports and signals matched to the as-found record
Configuration	Approved Honeywell hardware and system configuration restored
Functional proof	Controlled test confirms termination and fieldbus-power interfacing for a Series C Fieldbus Interface Module

IMPORTANT NOTICE

Confirm DC-TFB412 51307618-176, its exact host, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before 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

General Electric DS200SDCIG1AFB

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General Electric MIVII1000E00HI00

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MANUFACTURER SOURCE RECORD

Honeywell Series C Fieldbus Interface Module User's Guide EPDOC-X125 | Official Honeywell manufacturer publication

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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.