

DC-TFB412

Redundant Series C Fieldbus Interface IOTA

Honeywell DC-TFB412 is a redundant Series C Fieldbus Interface Module IOTA. It provides the shared physical connection for primary and secondary FIM modules.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Experion Series C Fieldbus Interface

PART

51307618-176

ORIGIN / HS

USA / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



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PRODUCT OVERVIEW

Honeywell DC-TFB412 is a redundant Series C Fieldbus Interface Module IOTA. It provides the shared physical connection for primary and secondary FIM modules.

1

Provides the field connection for redundant FIM modules

2

Supports primary and secondary interface positions

3

Routes fieldbus communications through the Series C carrier

4

Maintains paired-module cabinet wiring

SYSTEM COMPONENTS

Series C carrier

Primary FIM

Secondary FIM

Fieldbus trunk connection

REDUNDANT FIM TOPOLOGY

ELEMENT	SYSTEM CONNECTION
Primary position	Primary Fieldbus Interface Module
Secondary position	Secondary Fieldbus Interface Module
Shared termination	DC-TFB412 redundant FIM IOTA
Carrier interface	Experion Series C carrier

TECHNICAL DATA

PARAMETER	VALUE
Hardware type	Fieldbus interface IOTA
Redundancy	Primary; secondary

PARAMETER	VALUE
Platform	Experion Series C

REDUNDANCY COMMISSIONING ACCEPTANCE

CHECK	PASS CONDITION
Pair identity	Primary and secondary FIM positions recorded
Module seating	Both FIM modules fully seated in assigned positions
Trunk identity	Fieldbus trunk tag matches the installed record
Redundancy state	Primary/secondary pair reaches the expected state
Record the primary and secondary FIM positions and fieldbus trunk assignment before removal; verify pair synchronization and segment communication after restoration.	

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Redundant fieldbus segment control

Provides the field connection for redundant FIM modules

Process-instrument network integration

Supports primary and secondary interface positions

FIM pair replacement

Routes fieldbus communications through the Series C carrier

Series C fieldbus cabinet maintenance

Maintains paired-module cabinet wiring

PRODUCT PRECAUTIONS

- 1 Verify the complete DC-TFB412 marking and its assigned Experion Series C Fieldbus Interface position before work.
- 2 Isolate the energy associated with Series C carrier before disconnecting DC-TFB412.
- 3 Protect the DC-TFB412 connectors and electronic assembly using approved ESD controls.
- 4 Record the as-found Primary FIM connections and configured assignment before replacement.
- 5 Confirm Secondary FIM matches the approved installation record for DC-TFB412.
- 6 Restore DC-TFB412 under controlled conditions and review its model-specific diagnostics.
- 7 Complete a documented functional test for redundant fieldbus segment control before release.

ENGINEER FAQ

Q1 Does DC-TFB412 match Series C carrier in a Redundant fieldbus segment control installation?

Verify the complete DC-TFB412 marking, the documented Experion Series C Fieldbus Interface position and the installed Series C carrier before fitting the assembly.

Q3 Which Experion Series C Fieldbus Interface records should be captured before removing DC-TFB412?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with DC-TFB412 before disconnection.

Q5 Which Primary FIM condition should be checked when DC-TFB412 reports an abnormal state?

Check the Primary FIM supply, seating and connection first, then compare channel diagnostics with the recorded DC-TFB412 baseline.

Q7 What maintenance evidence is required after DC-TFB412 is used for FIM pair replacement?

Retain the nameplate record, corrective action, final diagnostics and a controlled fim pair replacement functional-test result for DC-TFB412.

Q2 How should DC-TFB412 be wired when it must provides the field connection for redundant fim modules?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for DC-TFB412; then continuity-test the affected path.

Q4 What controlled test confirms that DC-TFB412 can supports primary and secondary interface positions?

Apply the approved field or simulated stimulus, observe the Experion Series C Fieldbus Interface indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can DC-TFB412 be moved directly into Process-instrument network integration without validating Fieldbus trunk connection?

No. Confirm the Fieldbus trunk connection, revision, connection scheme and Experion Series C Fieldbus Interface configuration before transferring DC-TFB412 to that duty.

Q8 How should DC-TFB412 be returned to service in Series C fieldbus cabinet maintenance?

Restore power under control, verify routes fieldbus communications through the series c carrier, exercise the intended signal path and release DC-TFB412 only after the Experion Series C Fieldbus Interface remains in its approved operating state.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
DC-TCF901	Series C Mark II Control Firewall IOTA	Open product page
CC-MCAR01	Experion Series C carrier assembly	Open product page
CC-GDIL01	Series C galvanic digital-input IOTA	Open product page
8C-TDIL11	Redundant Series 8 SOE IOTA	Open product page