APTER■POWER

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Experion Series C Fieldbus Interface
Part number	51307618-176
Country	USA
HS code	8537101190

PRODUCT TECHNICAL REFERENCE

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

DC-TFB412

2 Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Hardware type	Fieldbus interface IOTA
Redundancy	Primary; secondary
Platform	Experion Series C

REDUNDANT FIM CONNECTION ARCHITECTURE

INSTALLATION ELEMENT	DOCUMENTED ROLE
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
Field connection	Documented fieldbus trunk assignment

3 System Role and Architecture

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

FUNCTION 1

Provides the field connection for redundant FIM modules

FUNCTION 2

Supports primary and secondary interface positions

FUNCTION 3

Routes fieldbus communications through the Series C carrier

FUNCTION 4

Maintains paired-module cabinet wiring

Matched system components

- Series C carrier
- Primary FIM
- Secondary FIM
- Fieldbus trunk connection

PRIMARY / SECONDARY FIM PAIRING

PAIR ELEMENT	SYSTEM ROLE
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

4 Applications and Engineering Context

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

TECHNICAL NOTE

Record the primary and secondary FIM positions and fieldbus trunk assignment before removal; verify pair synchronization and segment communication after restoration.

REDUNDANCY ACCEPTANCE EVIDENCE

CHECK	REQUIRED EVIDENCE
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

5 Engineering 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.

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**

MANUFACTURER SOURCE RECORD

Honeywell Series C Fieldbus Interface Module User Guide

EPDOC-X125

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