

INDUSTRIAL AUTOMATION PRODUCT

DC-TCF901

Series C Mark II Control Firewall IOTA

Honeywell DC-TCF901 is the CF9 Input/Output Termination Assembly for a Series C Mark II cabinet. It provides the Control Firewall module interface, nine FTE connections and 24 Vdc module power distribution.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Experion Series C Mark II
Part number	51307593-176
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 Honeywell product record.

PARAMETER	TECHNICAL VALUE
Hardware type	CF9 Input/Output Termination Assembly
Cabinet generation	Series C Mark II
Mounting interface	Series C Mark II backplane
Companion module	CC-PCF901
Network technology	Fault Tolerant Ethernet
FTE downlink ports	8
FTE supervisory uplink ports	1
Total FTE ports	9
Power distribution	24 Vdc to CF9 module
Printed-wiring-board protection	Coated
Single-mode fiber option	CC-FSMX01
Multi-mode fiber option	CC-FMMX01

PORT AND POWER DISTRIBUTION

INTERFACE	DOCUMENTED FUNCTION
Downlink ports 1-8	In-cabinet C300 controllers and Series 8 FIMs
Uplink port 9	FTE supervisory network
Control Firewall module	CC-PCF901 seated on DC-TCF901
Cabinet interface	Series C Mark II backplane
Module supply	24 Vdc distributed through the IOTA

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System Role and Architecture

Honeywell DC-TCF901 is the CF9 Input/Output Termination Assembly for a Series C Mark II cabinet. It provides the Control Firewall module interface, nine FTE connections and 24 Vdc module power distribution.

FUNCTION 1

Seats the CC-PCF901 Control Firewall module

FUNCTION 2

Terminates eight in-cabinet FTE downlinks

FUNCTION 3

Provides one supervisory-network FTE uplink

FUNCTION 4

Distributes 24 Vdc power to the CF9 module

Matched system components

- Series C Mark II cabinet backplane
- CC-PCF901 Control Firewall module
- Eight in-cabinet FTE cables
- Supervisory FTE uplink cable

FTE CONNECTION ARCHITECTURE

CONNECTION POINT	ENGINEERING ROLE
Downlink ports 1-8	In-cabinet C300 controllers and Series 8 FIMs
Uplink port 9	FTE supervisory network
Control Firewall module	CC-PCF901 seated on DC-TCF901
Cabinet interface	Series C Mark II backplane

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Applications and Engineering Context

C300 cabinet FTE distribution

Seats the CC-PCF901 Control Firewall module

Series 8 FIM network connection

Terminates eight in-cabinet FTE downlinks

Supervisory FTE uplink termination

Provides one supervisory-network FTE uplink

Control Firewall hardware replacement

Distributes 24 Vdc power to the CF9 module

TECHNICAL NOTE

Record every downlink and uplink cable identity before removing DC-TCF901. After seating the CC-PCF901 module, restore the documented FTE topology, verify power and status indications, and test communication to each connected cabinet node.

APPLICATION ACCEPTANCE EVIDENCE

CHECK	REQUIRED EVIDENCE
Cable identity	Each FTE downlink and supervisory uplink tag retained
Module seating	CC-PCF901 connector fully seated on the IOTA
Power state	Expected power and status indications after controlled energizat
Port state	Every connected FTE path establishes its documented link

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Engineering Precautions

- 1 Verify the complete DC-TCF901 marking and its assigned Experion Series C Mark II position before work.
- 2 Isolate the energy associated with Series C Mark II cabinet backplane before disconnecting DC-TCF901.
- 3 Protect the DC-TCF901 connectors and electronic assembly using approved ESD controls.
- 4 Record the as-found CC-PCF901 Control Firewall module connections and configured assignment before replacement.
- 5 Confirm Eight in-cabinet FTE cables matches the approved installation record for DC-TCF901.
- 6 Restore DC-TCF901 under controlled conditions and review its model-specific diagnostics.
- 7 Complete a documented functional test for c300 cabinet fte distribution before release.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
CC-GDIL01	Series C galvanic digital-input IOTA	Open product page
CC-MCAR01	Experion Series C carrier assembly	Open product page
8C-TDIL01	Series 8 digital-input SOE IOTA	Open product page
8C-TDIL11	Redundant Series 8 SOE IOTA	Open product page

MANUFACTURER SOURCE RECORD

Honeywell Experion Control Firewall User's Guide
EPDOC-XX20-en-501B

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