

INDUSTRIAL AUTOMATION PRODUCT

51304518-150

APM Advanced Controller Board

Honeywell 51304518-150 is a conformally coated APM Advanced Controller board. It executes controller logic and coordinates I/O processing within an Advanced Process Manager cardfile.

| IDENTITY      | VERIFIED VALUE                    |
|---------------|-----------------------------------|
| Manufacturer  | Honeywell                         |
| System family | TDC 3000 Advanced Process Manager |
| Part number   | 51304518-150                      |
| Country       | USA                               |
| HS code       | 8537101190                        |

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51304518-150

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Technical Specifications

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

| PARAMETER         | TECHNICAL VALUE  |
|-------------------|------------------|
| Controller family | APM              |
| Board coating     | Conformal        |
| Assembly          | Controller board |

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## System Role and Architecture

Honeywell 51304518-150 is a conformally coated APM Advanced Controller board. It executes controller logic and coordinates I/O processing within an Advanced Process Manager cardfile.

**FUNCTION 1**

Executes Advanced Process Manager control functions

**FUNCTION 2**

Coordinates the APM I/O link

**FUNCTION 3**

Participates in the controller cardfile

**FUNCTION 4**

Supports the documented APM redundancy arrangement

### Matched system components

- APM cardfile
- APM I/O link boards
- UCN interface hardware
- Controller database

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## Applications and Engineering Context

**APM controller maintenance**

Executes Advanced Process Manager control functions

**Regulatory control execution**

Coordinates the APM I/O link

**Sequence and logic processing**

Participates in the controller cardfile

**Legacy TDC 3000 controller repair**

Supports the documented APM redundancy arrangement

**TECHNICAL NOTE**

Back up the controller database and record the active/standby state before removal, then verify synchronization and a controlled role transfer.

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## Engineering Precautions

1

Verify the complete 51304518-150 marking and the assigned TDC 3000 Advanced Process Manager position before field work.

2

Isolate the applicable power, network and field energy before disconnecting 51304518-150.

3

Use ESD controls and protect the keyed connectors of 51304518-150 during handling.

4

Record the installed wiring, jumpers, node or channel assignment before replacement.

5

Confirm APM cardfile and APM I/O link boards against the approved system configuration.

6

Restore 51304518-150 under controlled conditions and review the product-specific diagnostics.

7

Complete a functional test for apm controller maintenance before production release.

### MANUFACTURER SOURCE RECORD

Honeywell APM hardware service record

51304518-150

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