

INDUSTRIAL AUTOMATION PRODUCT

51304831-100

TPDG I/O Board

Honeywell 51304831-100 is a TPDG I/O board for a TDC 3000 Universal Station. It interfaces the display generator with the CRT, touchscreen, keyboard, pointing device and peripheral connections.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	TDC 3000 Universal Station
Part number	51304831-100
Country	USA
HS code	8537101190

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51304831-100

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Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Board type	TPDG I/O
Assembly number	51304831-100
Default CRT shading	J10/J11 selectable

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System Role and Architecture

Honeywell 51304831-100 is a TPDG I/O board for a TDC 3000 Universal Station. It interfaces the display generator with the CRT, touchscreen, keyboard, pointing device and peripheral connections.

FUNCTION 1

Interfaces the Turbo Peripheral Display Generator

FUNCTION 2

Connects CRT and touchscreen circuits

FUNCTION 3

Provides keyboard and pointing-device interfaces

FUNCTION 4

Carries printer and LCN peripheral connections

Matched system components

- TPDG processor board
- CRT and touchscreen cables
- Keyboard interface board
- Mouse or trackball

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Applications and Engineering Context

Universal Station display repair

Interfaces the Turbo Peripheral Display Generator

Touchscreen restoration

Connects CRT and touchscreen circuits

Operator keyboard service

Provides keyboard and pointing-device interfaces

TPDG peripheral troubleshooting

Carries printer and LCN peripheral connections

TECHNICAL NOTE

Label every cable and record J10/J11 default CRT shading before removal, then verify display, touch, keyboard and pointing-device operation.

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Engineering Precautions

1

Verify the complete 51304831-100 marking and the assigned TDC 3000 Universal Station position before field work.

2

Isolate the applicable power, network and field energy before disconnecting 51304831-100.

3

Use ESD controls and protect the keyed connectors of 51304831-100 during handling.

4

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

5

Confirm TPDG processor board and CRT and touchscreen cables against the approved system configuration.

6

Restore 51304831-100 under controlled conditions and review the product-specific diagnostics.

7

Complete a functional test for universal station display repair before production release.

MANUFACTURER SOURCE RECORD

Honeywell Five/Ten-Slot Module Service

Figure 2-15

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