

51303979-550

Advanced I/O Link Interface Board

Honeywell 51303979-550 is an Advanced I/O Link Interface board for a TDC 3000 Advanced Process Manager. It connects the controller hardware to its configured I/O link.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

TDC 3000 Advanced Process Manager

PART

51303979-550

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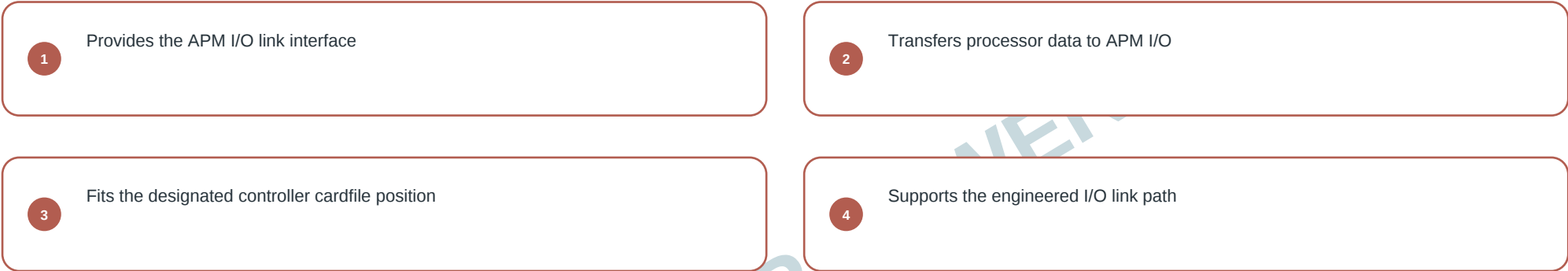
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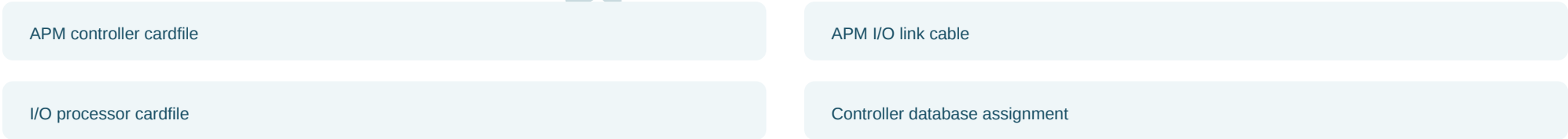
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PRODUCT OVERVIEW

Honeywell 51303979-550 is an Advanced I/O Link Interface board for a TDC 3000 Advanced Process Manager. It connects the controller hardware to its configured I/O link.



SYSTEM COMPONENTS



TECHNICAL DATA

PARAMETER	VALUE
Board function	Advanced I/O link interface

PARAMETER	VALUE
Hardware revision	G

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TECHNICAL NOTE

Record both I/O link cable identities and the board position, then verify processor communication and all connected I/O groups.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

APM I/O link maintenance

Provides the APM I/O link interface

Controller cardfile restoration

Transfers processor data to APM I/O

Legacy TDC 3000 repair

Fits the designated controller cardfile position

I/O communication troubleshooting

Supports the engineered I/O link path

PRODUCT PRECAUTIONS

- 1 Verify the complete 51303979-550 marking and the assigned TDC 3000 Advanced Process Manager position before field work.
- 2 Isolate the applicable power, network and field energy before disconnecting 51303979-550.
- 3 Use ESD controls and protect the keyed connectors of 51303979-550 during handling.
- 4 Record the installed wiring, jumpers, node or channel assignment before replacement.
- 5 Confirm APM controller cardfile and APM I/O link cable against the approved system configuration.
- 6 Restore 51303979-550 under controlled conditions and review the product-specific diagnostics.
- 7 Complete a functional test for apm i/o link maintenance before production release.

ENGINEER FAQ

Q1 Which APM controller cardfile identity must be verified before fitting the 51303979-550 Advanced I/O Link Interface Board?

Match the complete 51303979-550 marking, assigned TDC 3000 Advanced Process Manager position and installed APM controller cardfile before work.

Q2 How should APM I/O link cable be isolated before disconnecting the 51303979-550 Advanced I/O Link Interface Board?

Place the affected process in its approved maintenance state, isolate applicable energy and prove APM I/O link cable safe before disconnection.

Q3 What as-found wiring record is required for the 51303979-550 Advanced I/O Link Interface Board in APM I/O link maintenance?

Record terminal identity, polarity, shields, jumpers, cable tags and the as-found diagnostic state for 51303979-550.

Q4 Which TDC 3000 Advanced Process Manager configuration must be checked when commissioning the 51303979-550 Advanced I/O Link Interface Board?

Verify the assigned channel, slot, node or interface and compare it with the approved TDC 3000 Advanced Process Manager configuration before enabling 51303979-550.

Q5 How can the 51303979-550 Advanced I/O Link Interface Board be function-tested for Controller cardfile restoration without disturbing the process?

Use a controlled stimulus or limited command, observe the expected system indication and confirm the intended response while normal interlocks remain effective.

Q6 Which diagnostics should be reviewed if the 51303979-550 Advanced I/O Link Interface Board stops performing its assigned system function?

Check seating, the matched APM controller cardfile, the condition of APM I/O link cable and the model-specific diagnostics before replacing more hardware.

Q7 Can the 51303979-550 Advanced I/O Link Interface Board used for Legacy TDC 3000 repair be transferred to another TDC 3000 Advanced Process Manager position without engineering review?

No. Confirm the hardware execution, connector scheme and approved TDC 3000 Advanced Process Manager configuration before transferring 51303979-550 to a different duty.

Q8 What evidence should be retained after the 51303979-550 Advanced I/O Link Interface Board returns to I/O communication troubleshooting service?

Retain the physical identification, as-left wiring or configuration, final diagnostics and controlled functional-test result for 51303979-550.

SOURCE Honeywell APM hardware service record | 51303979-550

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