

51401642-150

51401642-150 High-Performance I/O Link Card

Honeywell 51401642-150 is the 51401642-150 High-Performance I/O Link Card used for I/O Link communication between the HPM communications/control card and installed I/O processors in a documented Honeywell High-Performance Process Manager installation. Confirm the complete identity and installed system configuration before replacement.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Honeywell High-Performance Process Manager
Part number	51401642-150
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install 51401642-150 only in its documented Honeywell High-Performance Process Manager position. Preserve the exact interfaces, wiring and configuration, then verify diagnostics and I/O Link communication between the HPM communications/control card and installed I/O processors under controlled conditions.

System Role and Architecture

Honeywell 51401642-150 is the 51401642-150 High-Performance I/O Link Card used for I/O Link communication between the HPM communications/control card and installed I/O processors in a documented Honeywell High-Performance Process Manager installation. Confirm the complete identity and installed system configuration

FUNCTION 1
Processor resource: Dedicated I/O Link processor

FUNCTION 2
Shared memory: SRAM interface to the communications/control card

FUNCTION 3
Link interface: I/O Link driver/receiver

FUNCTION 4
Power conversion: +24 VDC to +5 VDC for the HPM module set

RELATED APTER POWER PAGES

1 Honeywell 51401496-100

2 Honeywell 621-2200RC

3 Honeywell 8C-PAOH51 51454355-175

4 Honeywell 8C-TAIMA1 51307171-175

5 Honeywell 8C-TAOXA1 51307135-175

6 Honeywell 8C-TDILA1 51307141-175

7 Honeywell MC-PAOX03 51309152-175

8 Honeywell MC-TAIH12 51304337-150

9 Honeywell MC-TAOX12 51304335-175

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Honeywell High-Performance Process Manager
02	Matched Honeywell High-Performance Process Manager host and field interface
03	Documented power, signal, communication and grounding connections
04	Approved configuration, diagnostics and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Honeywell High-Performance Process Manager
Interface role	I/O Link communication between the HPM communications/control card and installed I/O processors
Field / power context	documented Honeywell High-Performance Process Manager installed position
Commissioning evidence	Identity, wiring, configuration, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete 51401642-150 identity on the hardware and maintenance record.
- 2

Place the affected Honeywell High-Performance Process Manager process in the approved maintenance state.
- 3

Record the installed position, connectors, terminals, wiring and configuration before removal.
- 4

Isolate all documented power and field energy and apply ESD controls where required.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Product type	High-Performance I/O Link card	Shared memory	SRAM interface to the communications/control card
Part number	51401642-150	Link interface	I/O Link driver/receiver
System	High-Performance Process Manager	Power conversion	+24 VDC to +5 VDC for the HPM module set
Processor resource	Dedicated I/O Link processor	Companion card	High-Performance communications/control card

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9 Honeywell MC-TAOX12 51304335-175

ENGINEERING BOUNDARY

Confirm 51401642-150, its exact host, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete 51401642-150 identity on the hardware and maintenance record.
- 2

Place the affected Honeywell High-Performance Process Manager process in the approved maintenance state.
- 3

Record the installed position, connectors, terminals, wiring and configuration before removal.
- 4

Isolate all documented power and field energy and apply ESD controls where required.

Applications and Engineering Context

51401642-150 High-Performance I/O Link Card

Provides I/O Link communication between the HPM communications/control card and installed I/O processors in the approved Honeywell High-Performance Process Manager architecture.

Installed-system maintenance

Preserves the documented slot, termination, wiring and configuration during replacement.

Controlled commissioning

Restores power and signals in the approved sequence and reviews diagnostics.

Acceptance verification

Confirms the intended channel, network or safety function before release.

TECHNICAL NOTE

Install 51401642-150 only in its documented Honeywell High-Performance Process Manager position. Preserve the exact interfaces, wiring and configuration, then verify diagnostics and I/O Link communication between the HPM communications/control card and installed I/O processors under controlled conditions.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	51401642-150 recorded
Host / carrier	Honeywell High-Performance Process Manager
Physical interface	Installed terminals, ports and signals matched to the as-found record
Configuration	Approved Honeywell hardware and system configuration restored
Functional proof	Controlled test confirms I/O Link communication between the HPM communications/control card and installed I/O processors

IMPORTANT NOTICE

Confirm 51401642-150, its exact host, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Honeywell 51401496-100

View Honeywell 51401496-100 page

2

Honeywell 621-2200RC

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3

Honeywell 8C-PAOH51 51454355-175

View Honeywell 8C-PAOH51 51454355-175 page

4

Honeywell 8C-TAIMA1 51307171-175

View Honeywell 8C-TAIMA1 51307171-175 page

5

Honeywell 8C-TAOXA1 51307135-175

View Honeywell 8C-TAOXA1 51307135-175 page

6

Honeywell 8C-TDILA1 51307141-175

View Honeywell 8C-TDILA1 51307141-175 page

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Honeywell MC-PAOX03 51309152-175

View Honeywell MC-PAOX03 51309152-175 page

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Honeywell MC-TAIH12 51304337-150

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Honeywell MC-TAOX12 51304335-175

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MANUFACTURER SOURCE RECORD

Honeywell HPM High-Performance Process Manager Service | Honeywell manufacturer publication

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.