

# TC-PCIC02

## TC-PCIC02 Universal ControlNet Interface Module

Honeywell TC-PCIC02 is the TC-PCIC02 Universal ControlNet Interface Module used for PCI-bus connection of an Experion server to the ControlNet network in a documented Honeywell Experion server hardware installation. Confirm the complete identity and installed system configuration before replacement.

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| IDENTITY        | VERIFIED VALUE                          |
|-----------------|-----------------------------------------|
| Manufacturer    | Honeywell                               |
| System family   | Honeywell Experion server hardware      |
| Part number     | TC-PCIC02                               |
| 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 TC-PCIC02 only in its documented Honeywell Experion server hardware position. Preserve the exact interfaces, wiring and configuration, then verify diagnostics and PCI-bus connection of an Experion server to the ControlNet network under controlled conditions.

# System Role and Architecture

Honeywell TC-PCIC02 is the TC-PCIC02 Universal ControlNet Interface Module used for PCI-bus connection of an Experion server to the ControlNet network in a documented Honeywell Experion server hardware installation. Confirm the complete identity and installed system configuration before replacement.

**FUNCTION 1**  
Network: ControlNet

**FUNCTION 2**  
Server integration: Supported Honeywell server or approved PCIe-to-PCI chassis arrangement

**FUNCTION 3**  
Network media: Coax trunk, taps, drop cables, repeaters and terminators as engineered

**FUNCTION 4**  
Service scope: Card seating, driver, network address, media and ControlNet diagnostics

| RELATED APTER POWER PAGES          |                                    |                                    |
|------------------------------------|------------------------------------|------------------------------------|
| 1 Honeywell 51401496-100           | 2 Honeywell 51401642-150           | 3 Honeywell 621-2200RC             |
| 4 Honeywell 8C-PAOH51 51454355-175 | 5 Honeywell 8C-TAIMA1 51307171-175 | 6 Honeywell 8C-TAOXA1 51307135-175 |
| 7 Honeywell 8C-TDILA1 51307141-175 | 8 Honeywell MC-PAOX03 51309152-175 | 9 Honeywell MC-TAIH12 51304337-150 |

## MATCHED SYSTEM COMPONENTS

| NO. | DOCUMENTED COMPONENT / ROLE                                         |
|-----|---------------------------------------------------------------------|
| 01  | Honeywell Experion server hardware                                  |
| 02  | Matched Honeywell Experion server hardware 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 Experion server hardware                                            |
| Interface role         | PCI-bus connection of an Experion server to the ControlNet network            |
| Field / power context  | documented Honeywell Experion server hardware installed position              |
| Commissioning evidence | Identity, wiring, configuration, diagnostics and controlled response recorded |

## INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete TC-PCIC02 identity on the hardware and maintenance record.
- 2

Place the affected Honeywell Experion server hardware 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  | Universal ControlNet interface module | Server integration | Supported Honeywell server or approved PCIe-to-PCI chassis  |
| Model         | TC-PCIC02                             | Network media      | Coax trunk, taps, drop cables, repeaters and terminators as |
| Bus interface | PCI bus                               | Service scope      | Card seating, driver, network address, media and ControlNet |
| Network       | ControlNet                            |                    |                                                             |

RELATED PRODUCT PAGES

1 Honeywell 51401496-100

2 Honeywell 51401642-150

3 Honeywell 621-2200RC

4 Honeywell 8C-PAOH51 51454355-175

5 Honeywell 8C-TAIMA1 51307171-175

6 Honeywell 8C-TAOXA1 51307135-175

7 Honeywell 8C-TDILA1 51307141-175

8 Honeywell MC-PAOX03 51309152-175

9 Honeywell MC-TAIH12 51304337-150

## ENGINEERING BOUNDARY

Confirm TC-PCIC02, its exact host, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

## PRE-INSTALLATION CHECKS

- 1

Confirm the complete TC-PCIC02 identity on the hardware and maintenance record.
- 2

Place the affected Honeywell Experion server hardware 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

## TC-PCIC02 Universal ControlNet Interface Module

Provides PCI-bus connection of an Experion server to the ControlNet network in the approved Honeywell Experion server hardware 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 TC-PCIC02 only in its documented Honeywell Experion server hardware position. Preserve the exact interfaces, wiring and configuration, then verify diagnostics and PCI-bus connection of an Experion server to the ControlNet network under controlled conditions.

### MODEL-SPECIFIC ACCEPTANCE EVIDENCE

| CHECK              | ACCEPTANCE CONDITION                                                                        |
|--------------------|---------------------------------------------------------------------------------------------|
| Identity           | TC-PCIC02 recorded                                                                          |
| Host / carrier     | Honeywell Experion server hardware                                                          |
| 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 PCI-bus connection of an Experion server to the ControlNet network |

### IMPORTANT NOTICE

Confirm TC-PCIC02, 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 51401642-150

View Honeywell 51401642-150 page

3

Honeywell 621-2200RC

View Honeywell 621-2200RC page

4

Honeywell 8C-PAOH51 51454355-175

View Honeywell 8C-PAOH51 51454355-175 page

5

Honeywell 8C-TAIMA1 51307171-175

View Honeywell 8C-TAIMA1 51307171-175 page

6

Honeywell 8C-TAOXA1 51307135-175

View Honeywell 8C-TAOXA1 51307135-175 page

7

Honeywell 8C-TDILA1 51307141-175

View Honeywell 8C-TDILA1 51307141-175 page

8

Honeywell MC-PAOX03 51309152-175

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9

Honeywell MC-TAIH12 51304337-150

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MANUFACTURER SOURCE RECORD

Honeywell System HINTS, January 2023 and server planning guides | 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.