

APTER POWER

COMPLETE PRODUCT INFORMATION

TC-PCIC02

TC-PCIC02 Universal ControlNet Interface Module

TC-PCIC02 Universal ControlNet Interface Module

PRODUCT SNAPSHOT

BRAND
Honeywell

FAMILY
Honeywell Experion server

PART
TC-PCIC02

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Honeywell TC-PCIC02 provides PCI-bus connection of an Experion server to the ControlNet network in a documented Honeywell Experion server hardware installation.

- Network: ControlNet
- Server integration: Supported Honeywell server or approved PCIe-to-PCI chassis arrangement
- Network media: Coax trunk, taps, drop cables, repeaters and terminators as engineered
- Service scope: Card seating, driver, network address, media and ControlNet diagnostics

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

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitor Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its installed host, interface hardware and engineering configuration. Commissioning restores that architecture and verifies the intended function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE
Product type	Universal ControlNet interface module
Model	TC-PCIC02
Bus interface	PCI bus
Network	ControlNet

PARAMETER	VALUE
Server integration	Supported Honeywell server or approved PCIe-to-PCI
Network media	Coax trunk, taps, drop cables, repeaters and terminators as
Service scope	Card seating, driver, network address, media and

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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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

TC-PCIC02 Universal ControlNet Interface Module

Provides PCI-bus connection of an Experion server to the ControlNet network in the approved Honeywell

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.

PRODUCT PRECAUTIONS

- 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.
- 5 Inspect the replacement identity, revision, interfaces and mating hardware before installation.
- 6 Restore every conductor, cable, power path and configuration value to the approved record.
- 7 Review host, module, channel or network diagnostics after controlled energization.
- 8 Perform a controlled test that proves PCI-bus connection of an Experion server to the ControlNet

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ENGINEER FAQ

Q1 Which network does TC-PCIC02 connect to?

It provides the server interface to ControlNet.

Q2 What host bus is used by TC-PCIC02?

The module is a PCI-bus interface card.

Q3 How can TC-PCIC02 be connected to a server without a native PCI slot?

Use the approved PCIe-to-PCI converter chassis documented for that server platform.

Q4 Why are ControlNet terminators important when servicing TC-PCIC02?

The beginning and end of every trunk segment must remain correctly terminated.

Q5 Which passive media should be inspected with TC-PCIC02?

Inspect the coax trunk, tap, drop cable, repeaters and terminators for the affected path.

Q6 What configuration should be recorded before exchanging TC-PCIC02?

Capture the installed slot or converter chassis, driver, network address and link diagnostics.

Q7 Can TC-PCIC02 be treated as an ordinary Ethernet adapter?

No. It is a dedicated ControlNet interface and must follow the engineered ControlNet topology.

Q8 What proves TC-PCIC02 is ready after installation?

Confirm card recognition, driver status, network participation and stable communication with the configured ControlNet nodes.

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SOURCE Honeywell System HINTS, January 2023 and server planning guides | Honeywell manufacturer publication

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