5ACPCI.ETH3-01

Three-port PCI Ethernet card

Three independent 10/100 Mbit/s Ethernet network channels

PRODUCT SNAPSHOT

BRAND	B&R
FAMILY	B&R industrial PC option
PART	5ACPCI.ETH3-01
ORIGIN / HS	Austria / 8537101190

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PRODUCT OVERVIEW

Three independent 10/100 Mbit/s Ethernet network channels

1. Provides three shielded RJ45 ports
2. Uses the Intel 82551ER Ethernet controller
3. Supports 10/100 Mbit/s communication
4. Fits a universal half-size PCI interface

SYSTEM COMPONENTS

- compatible B&R industrial PC
- standard PCI slot
- Ethernet cables and switches
- operating-system network configuration

TECHNICAL NOTE

Record adapter order, IP settings and cable destinations, isolate PC power and use ESD controls before installing the PCI card.

TECHNICAL DATA

PARAMETER	VALUE
B&R ID	0xA58B
Ethernet ports	3
Controller	Intel 82551ER
Connectors	Shielded RJ45
Data rate	10/100 Mbit/s

PARAMETER	VALUE
Maximum segment	100 m
PCI voltage	Universal 3.3/5 V
Card size	Half-size PCI
Slot	Standard 16-bit PCI

ENGINEERING NOTE

Record adapter order, IP settings and cable destinations, isolate PC power and use ESD controls before installing the PCI card.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
AI625-3BHT300036R1	Related industrial automation product	View AI625-3BHT300036R1 page
A8PU05ABFW02	Related industrial automation product	View A8PU05ABFW02 page
424K1105	Related industrial automation product	View 424K1105 page
3HNP04014-1	Related industrial automation product	View 3HNP04014-1 page
3HNM09846-1	Related industrial automation product	View 3HNM09846-1 page
3HAC17484-8	Related industrial automation product	View 3HAC17484-8 page
3HAC14551-2	Related industrial automation product	View 3HAC14551-2 page
3BSE003879R1-BB174	Related industrial automation product	View 3BSE003879R1-BB174 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Multi-network industrial PC

Provides three shielded RJ45 ports

Separated machine and plant networks

Uses the Intel 82551ER Ethernet controller

Service Ethernet interface

Supports 10/100 Mbit/s communication

PCI network-card replacement

Fits a universal half-size PCI interface

PRODUCT PRECAUTIONS

1. Verify the full 5ACPCI.ETH3-01 marking and its assigned B&R industrial PC option position before work.
2. Place the connected machine or process in the approved maintenance state.
3. Isolate the applicable supply and three independent 10/100 mbit/s ethernet network channels field energy before disconnecting conductors.
4. Record connector, conductor, address and software identities before removal.
5. Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
6. Confirm the installed compatible B&R industrial PC and standard PCI slot against the approved project.
7. Restore power in a controlled sequence and review device, network and host diagnostics.
8. Prove the intended multi-network industrial pc function and retain the final test result.

ENGINEER FAQ

Q1 Does 5ACPCI.ETH3-01 match compatible B&R industrial PC in a Multi-network industrial PC installation?

Verify the complete 5ACPCI.ETH3-01 marking, the documented B&R industrial PC option position and the installed compatible B&R industrial PC before fitting the assembly.

Q2 How should 5ACPCI.ETH3-01 be wired when it must provides three shielded rj45 ports?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 5ACPCI.ETH3-01; then continuity-test the affected path.

Q3 Which B&R industrial PC option records should be captured before removing 5ACPCI.ETH3-01?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 5ACPCI.ETH3-01 before disconnection.

Q4 What controlled test confirms that 5ACPCI.ETH3-01 can uses the intel 82551er ethernet controller?

Apply the approved field or simulated stimulus, observe the B&R industrial PC option indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which standard PCI slot condition should be checked when 5ACPCI.ETH3-01 reports an abnormal state?

Check the standard PCI slot supply, seating and connection first, then compare channel diagnostics with the recorded 5ACPCI.ETH3-01 baseline.

Q6 Can 5ACPCI.ETH3-01 be moved directly into Separated machine and plant networks without validating operating-system network configuration?

No. Confirm the operating-system network configuration, revision, connection scheme and B&R industrial PC option configuration before transferring 5ACPCI.ETH3-01 to that duty.

Q7 What maintenance evidence is required after 5ACPCI.ETH3-01 is used for Service Ethernet interface?

Retain the nameplate record, corrective action, final diagnostics and a controlled service ethernet interface functional-test result for 5ACPCI.ETH3-01.

Q8 How should 5ACPCI.ETH3-01 be returned to service in PCI network-card replacement?

Restore power under control, verify supports 10/100 mbit/s communication, exercise the intended signal path and release 5ACPCI.ETH3-01 only after the B&R industrial PC option remains in its approved operating state.

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