

Installation Identity and Scope

ABB PU514 is a PCI real-time accelerator board used with 32-bit MOD 300 and 800xA engineering workstation configurations. ABB requires an available 5 V PCI slot and identifies external PU410K02 or PU412K01 units as the later replacement path.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	PU514
Manufacturer	ABB
Hardware role	PCI RTA Board
System family	MOD 300 Engineering

Controlled engineering copy

Verify the workstation generation and an available 5 V PCI slot before installing PU514. For current migration work, use the ABB-documented external RTA replacement rather than assuming support for the legacy board.

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PU514

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the complete ABB PU514 marking before work.
2	Confirm the host is the documented 32-bit workstation class.
3	Verify an available 5 V PCI slot; do not use a 3.3 V-only slot.
4	Back up the engineering configuration and communication records.
5	Label all communication connections before removing the board.
6	Use ESD controls and inspect the PCI connector before installation.
7	Review the PU410K02 or PU412K01 path for later-system migration.
8	Verify workstation communication and engineering access before release.

Before Energization

CONTROL	REQUIRED RECORD
Identity	Complete PU514 marking and hardware role
Connections	Approved power, grounding and protocol interfaces
Configuration	Controlled backup, addressing and protocol files
Test plan	Defined acceptance values and controlled restart authority

Release hold point

Do not disturb the installed device until exact marking, interfaces, companion hardware and configured function are documented.

Wiring, Network and Configuration Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Host interface	PCI
Supported host class	32-bit workstation
PCI requirement	Available 5 V PCI slot
Power source	PCI bus
Legacy system role	MOD 300 / 800xA engineering communication
Later replacement	PU410K02 or PU412K01 external RTA unit
Current support status	Legacy PU514 board not supported in later 800xA 5.1 configurations

Configuration boundary

Verify the workstation generation and an available 5 V PCI slot before installing PU514. For current migration work, use the ABB-documented external RTA replacement rather than assuming support for the legacy board.

Expected Technical Values

PARAMETER	VALUE
Product identity	PU514
Product type	Real-time accelerator board
Host interface	PCI
Supported host class	32-bit workstation

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Manufacturer and complete PU514 marking match the record.
Power	Measured supply agrees with the documented operating requirement.
Interface	Connectors, addressing and network parameters match the approved project.
Configuration	Protocol files, framing and mapped data areas match the controlled backup.
Diagnostics	No unexplained status, counter or communication fault remains.
Functional proof	Controlled bidirectional data transfer completes successfully.
Release	Final values and test results are retained with restart approval.

Questions to Resolve

QUESTION	ENGINEERING ANSWER
What is ABB PU514?	ABB PU514 is a PCI real-time accelerator board used in documented 32-bit engineering workstation configurations.
Which PCI slot does ABB PU514 require?	ABB specifies an available 5 V PCI slot.

Related Products

MODEL	APTER POWER PAGE
ABB G4AI 1KHL015623R0001	View ABB G4AI 1KHL015623R0001
ABB G4AK 1KHL016009R0001	View ABB G4AK 1KHL016009R0001
ABB 1KHL178016R0001F	View ABB 1KHL178016R0001F
ABB 1KHW001381R0001	View ABB 1KHW001381R0001

Source, Related Products and Release

MODEL	APTER POWER PAGE
ABB 1KHW001432R0001	View ABB 1KHW001432R0001
ABB DI811	View ABB DI811
ABB TU831V1 3BSE013235R1	View ABB TU831V1 3BSE013235R1
ABB DSBC174 3BSE012211R1	View ABB DSBC174 3BSE012211R1

MANUFACTURER SOURCE RECORDS

1. ABB System 800xA 5.1 Technical Data and Configuration 3BSE041434
2. ABB MOD 300 Engineering Displays Data Sheet 3BUR002414R1

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	PU514 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
Functional proof	Controlled test completed without unexplained fault

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