

PU514

PCI RTA Board

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.

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
Complete model	PU514
Product role	PCI RTA Board
System family	MOD 300 Engineering

Document scope

Exact identity, verified technical data, applications, precautions, model-specific FAQ and controlled acceptance records.

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Technical Specifications

PARAMETER	VERIFIED VALUE	PARAMETER	VERIFIED VALUE
Product identity	PU514	Power source	PCI bus
Product type	Real-time accelerator board	Legacy system role	MOD 300 / 800xA engineering communication
Host interface	PCI	Later replacement	PU410K02 or PU412K01 external RTA unit
Supported host class	32-bit workstation	Current support status	Legacy PU514 board not supported in later 800xA 5.1 configurations
PCI requirement	Available 5 V PCI slot		

Engineering 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.

Identity Acceptance

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

Functions and Applications

PCI workstation interface Provides the documented RTA function through a 5 V PCI slot.	Bus-powered operation Receives operating power from the workstation PCI bus.
MOD 300 communication Supports the legacy engineering communication role in documented workstation configurations.	External migration path Transitions to the ABB-documented PU410K02 or PU412K01 external RTA unit.

Common Applications

APPLICATION	ENGINEERING CONTEXT
MOD 300 workstation	Provides the RTA interface in a compatible 32-bit engineering workstation.
Legacy 800xA engineering	Supports the documented older PCI-based engineering arrangement.
RTA board replacement	Replaces an exact PU514 only after slot and software compatibility review.
Workstation migration	Uses an external ABB RTA unit for the later supported configuration.

Controlled acceptance duty

Confirm identity, interfaces, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
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.

Model-Specific FAQ - Part 1

QUESTION	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.
How is ABB PU514 powered?	The board receives power from the workstation PCI bus.
Which workstation class uses ABB PU514?	ABB documents PU514 for 32-bit workstation configurations.

Related Products

MODEL	APTER POWER PAGE
ABB 07PS62R2 GJV3074332R2	View ABB 07PS62R2 GJV3074332R2
ABB 07SK90R1 GJR5250200R0001	View ABB 07SK90R1 GJR5250200R0001
ABB 07ZE61R302 GJV3074321R302	View ABB 07ZE61R302 GJV3074321R302
ABB 086363-002	View ABB 086363-002

Model-Specific FAQ - Part 2

QUESTION	ANSWER
Can ABB PU514 use a 3.3 V-only PCI slot?	No. ABB distinguishes the required 5 V PCI slot from 3.3 V-only slots.
Is ABB PU514 supported in later 800xA 5.1 configurations?	ABB states that the legacy PU514 board is not supported in the later configuration.
Which units replace ABB PU514 in the later architecture?	ABB identifies PU410K02 or PU412K01 external RTA units as the replacement path.
What confirms ABB PU514 commissioning?	The verified host, 5 V slot, engineering configuration and communication tests must match the approved record.

Related Products and Release

MODEL	APTER POWER PAGE
ABB 086364-001	View ABB 086364-001
ABB 0G0010-00-090	View ABB 0G0010-00-090
ABB 1HSB495663-3	View ABB 1HSB495663-3
ABB P4LR 1KHL015107R0001	View ABB P4LR 1KHL015107R0001

MANUFACTURER SOURCE RECORDS

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

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