

PM864AK01-3BSE018161R1

Processor Unit Kit

PUBLISHED IDENTITY

ABB PM864AK01-3BSE018161R1 is an AC 800M processor-unit package built around the PM864A CPU. ABB documentation identifies the PM864A platform with a 96 MHz processor, 32 MB RAM and TP830 baseplate architecture.

Technical snapshot

Product family	AC 800M
Package designation	PM864AK01
ABB article number	3BSE018161R1
Processor unit	PM864A
Microprocessor	MPC862 at 96 MHz
Memory	32 MB SDRAM and 2 MB flash PROM
Electrical ModuleBus	Up to 12 S800 I/O units
Ethernet ports	CN1 and CN2, IEEE 802.3 10BaseT

Verified related ApterPower product pages

ABB DI811 3BSE008552R1

ABB TU831V1 3BSE013235R1

Engineering data

Official evidence organized for exact-model review

Product family	AC 800M
Package designation	PM864AK01
ABB article number	3BSE018161R1
Processor unit	PM864A
Microprocessor	MPC862 at 96 MHz
Memory	32 MB SDRAM and 2 MB flash PROM
Electrical ModuleBus	Up to 12 S800 I/O units

Ethernet ports	CN1 and CN2, IEEE 802.3 10BaseT
Serial ports	COM3 RS-232C with modem support; COM4 RS-232C service port
Power input	24 V nominal; 19.2 to 30 V DC
Power reservoir	5 ms internal reservoir for controlled power-down
Protection rating	IP20
PM864A internal-battery backup	Minimum 235 hours under the documented conditions
Redundancy interface	Redundancy Control Link

EVIDENCE BOUNDARY

Confirm the complete ABB PM864AK01-3BSE018161R1 marking, installed firmware, project revision and cabinet records before replacement or commissioning.

Applications and system role

Four distinct documented operating contexts

AC 800M PROCESS CONTROL

Executes the approved control application in a documented AC 800M installation.

S800 I/O INTEGRATION

Connects up to twelve S800 I/O units through the electrical ModuleBus.

CONTROLLER COMMUNICATIONS

Provides on-board Ethernet and serial service or modem interfaces.

CONTROLLED PROCESSOR REPLACEMENT

Supports a record-led exchange followed by project, communication and I/O verification.

Integration control

Use the complete PM864AK01-3BSE018161R1 identity together with the installed TP830 baseplate, CEX-Bus termination, battery arrangement, firmware and approved Control Builder project. Back up the controller application and hardware configuration before replacement, then restore communications and affected I/O under a controlled acceptance plan.

Verified related ApterPower product pages

[ABB DSBC174 3BSE012211R1](#)

[ABB SR511 3BSE000863R1](#)

Technical questions

Complete model-specific answers from the approved evidence set

What does ABB PM864AK01-3BSE018161R1 identify?

ABB PM864AK01-3BSE018161R1 identifies an AC 800M processor-unit package built around the PM864A controller.

How much memory does ABB PM864AK01-3BSE018161R1 provide?

The PM864A platform provides 32 MB of SDRAM and 2 MB of flash PROM for firmware storage.

Which built-in communication ports are available on ABB PM864AK01-3BSE018161R1?

The PM864A processor unit provides two 10BaseT Ethernet ports and two RS-232C serial ports.

What must be backed up before ABB PM864AK01-3BSE018161R1 is replaced?

Technicians must back up the approved Control Builder project, application, hardware tree, firmware record and network settings before replacement.

Which processor is documented for ABB PM864AK01-3BSE018161R1?

ABB documents an MPC862 microprocessor running at 96 MHz for the PM864A processor unit.

How many S800 I/O units can ABB PM864AK01-3BSE018161R1 connect through electrical ModuleBus?

The electrical ModuleBus supports as many as twelve S800 I/O units under the documented controller arrangement.

What supply range applies to ABB PM864AK01-3BSE018161R1?

ABB specifies a nominal 24 V DC supply with an allowed input range from 19.2 V DC to 30 V DC.

What confirms ABB PM864AK01-3BSE018161R1 commissioning?

Successful commissioning requires normal controller diagnostics, restored communications and acceptance of every affected I/O and control function.

Product precautions

Eight aligned controls before return to service

1

Record the complete ABB PM864AK01-3BSE018161R1 identity before work.

2

Place the controlled process and controller in the approved maintenance state.

3

Back up the Control Builder project, application and hardware configuration.

4

Record the TP830 baseplate, CEX-Bus termination and connected communication units.

5

Isolate the controller supply and apply approved ESD controls before removal.

6

Verify firmware, Ethernet settings, serial assignments and battery arrangement.

7

Restore the approved application and hardware tree after installation.

8

Confirm diagnostics, communications and every affected I/O path before release.

Verified related ApterPower product pages

ABB 07DI92

ABB 07KT92 GJR5250500R0902

ABB 07KR91 GJR5250000R0101

ABB 07KP90 GJR5251000R0202

Evidence and support

Manufacturer references, related products and direct contact

Manufacturer evidence used

- ABB AC 800M Controller Hardware, 3BSE036351-600 A, PM864/PM864A hardware and installation sections.
- ABB product identity record for PM864AK01, article number 3BSE018161R1.
- ABB AC 800M Controller and Communication Interfaces data sheet, PM864A article mapping.

Verified related ApterPower product pages

ABB 07EB62R1 GJV3074342R1

ABB 07KP60R101 GJV3074360R101

ABB 07NG61R1 GJV3074311R1

ABB 07PS62R2 GJV3074332R2

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