

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB PM511V08 3BSE011180R1

Product Reference

ABB PM511V08 Advant Controller 450 Processor Module

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB PM511V08 3BSE011180R1
Reference number	3BSE011180R1
Document basis	Published ABB product records, PDFs, and manuals listed on page 3

**Product page**

<https://www.apterpower.com/ABB/pm511v08-3bse011180r1>
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Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

ABB PM511V08, product ID 3BSE011180R1, is a processor module used as the CPU-board element of an Advant Controller 450 process controller. In the AC450 system it executes the configured control application and coordinates controller resources, I/O exchange, and communication functions provided by the surrounding controller architecture. System context: ABB PM511V08 Advant Controller 450 Processor Module.

Published field	Manufacturer-published value or verified identity note
Manufacturer	ABB
Model	PM511V08
Product ID	3BSE011180R1
Product type	Processor module / CPU board
Host system	ABB Advant Controller 450
CPU-board capacity in AC450	Up to 2 PM511 CPU boards
Redundancy	Two PM511 CPU boards can be combined for dual redundancy

System function and signal path

01	Controller Role: Executes the AC450 control application and coordinates controller processing in the configured system.
02	Redundancy: ABB documents up to two PM511 CPU boards and permits dual redundancy at system level.
03	Process Signals: No direct analog or digital field channels are published for PM511V08. Process signals enter and leave through documented S100/S800 I/O modules and buses.
04	Communications: AC450 communication functions are provided through configured ABB interface modules such as the official CI/CS families. Do not assign any protocol as built into PM511V08 without exact processor documentation.

Applications, answers, and official sources

1 Advant Controller 450 application execution: Runs the configured process-control application in an AC450 system that specifies PM511V08 / 3BSE011180R1.

2 Dual-redundant controller processing: Forms one of up to two PM511 CPU-board positions when the exact ABB system is engineered for dual redundancy.

3 Large process-I/O coordination: Coordinates control logic and data exchange with the configured S100/S800 I/O architecture rather than measuring field signals directly.

4 Legacy networked process automation: Works with the AC450's selected communication modules to integrate established plant controllers, I/O, and operator or supervisory systems.

Frequently asked questions

What is ABB PM511V08 3BSE011180R1?	ABB identifies 3BSE011180R1 as a PM511V08 processor module; PM511 is the CPU-board element of the Advant Controller 450.
What is the exact ABB product ID?	The exact product ID is 3BSE011180R1.
Which controller uses PM511?	ABB's official product data identifies PM511 as the CPU board for Advant Controller 450.
Can AC450 use two PM511 processors?	Yes. ABB documents up to two PM511 CPU boards and states that they can be combined for dual redundancy.
Does PM511V08 directly measure field signals?	No direct field channels are published for the processor. Analog and digital signals are handled through the configured AC450 I/O subsystems.
Which communication protocol is built into PM511V08?	The cited exact source does not establish a built-in PM511V08 protocol. AC450 communication is configured with separate ABB interface modules.

Official ABB sources

ABB Final Sale Savings on hard-to-find parts	https://library.e.abb.com/public/14121fe82fe648edb1d5beac65e80526/Act%20Now%20PDF.pdf
ABB Advant Controller 450 product data	https://library.e.abb.com/public/67c5367296a54be7b84a4b67310b0165/3BSE004512R501_A_en_Advant_Controller_450_v_231.pdf
ABB Advant Master AC450 and Advant MOD 300 AC460 Limited-phase spare-parts notice	https://library.e.abb.com/public/65fd01d9592c4ac09ff7f4b88c67adc7/ADVANT%20Master%20AC%20450%20-%20ADVANT%20MOD%20300%20AC%20460%20Limited%20HZG000081%20A.pdf