

PM253V01

Processor Module

ABB PM253V01 is the processor module used in Advant Controller 250. ABB documents a Motorola MC68020 processor, 16.7 MHz clock, floating-point support, 1 MB RAM and supervision for up to 32 I/O units.

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
Complete model	PM253V01
Product role	Processor Module
System family	Advant Controller 250

MANUFACTURER SOURCE RECORDS

- 1. ABB Advant Controller 250 Data Sheet 493113211
- 2. ABB Advant Control Builder 1.1 Data Sheet 493112811

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Product Overview

System function

ABB PM253V01 is the processor module used in Advant Controller 250. ABB documents a Motorola MC68020 processor, 16.7 MHz clock, floating-point support, 1 MB RAM and supervision for up to 32 I/O units.

Controller processing

Executes the Advant Controller 250 application with MC68020 processing and floating-point support.

I/O supervision

Coordinates as many as 32 documented I/O units.

Serial communication

Provides two RS-232 channels with configurable serial rates.

SattBus communication

Provides the supervised SattBus channel documented for the processor module.

Technical note

Preserve the PM253V01 identity, controller program, serial settings, SattBus configuration and battery-backed clock records before processor replacement.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE	PARAMETER	VERIFIED VALUE
Product identity	PM253V01	Serial rates	75 to 38400 bit/s; 9600 bit/s default
Controller family	Advant Controller 250	SattBus	One supervised channel
Processor	Motorola MC68020	Real-time clock	Supported
Clock frequency	16.7 MHz	RTC accuracy	10 ppm normal; 50 ppm on backup
Floating-point unit	Yes	Backup battery	3.6 V, 1.75 Ah lithium
RAM	1 MB	Connectors	200-BPP and 9-pin female D-sub
Maximum I/O units	32	Internal current	0.6 A maximum
Serial channels	2 RS-232 channels	Backplane key code	5

Engineering boundary

Preserve the PM253V01 identity, controller program, serial settings, SattBus configuration and battery-backed clock records before processor replacement.

Applications and Engineering FAQ

APPLICATION	ENGINEERING CONTEXT
Advant Controller 250 CPU	Executes the controller application and retained control configuration.
RS-232 integration	Supports the documented serial channels for engineering or system communication.
SattBus control	Connects the controller through its supervised SattBus channel.
Legacy controller service	Replaces an exact PM253V01 after program and interface records are backed up.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What is ABB PM253V01?	ABB PM253V01 is the processor module used in Advant Controller 250.
Which processor does ABB PM253V01 use?	ABB documents a Motorola MC68020 processor running at 16.7 MHz.

Related Products

MODEL	APTER POWER PAGE
ABB 07KR91 GJR5250000R0101	View ABB 07KR91 GJR5250000R0101
ABB 07KP90 GJR5251000R0202	View ABB 07KP90 GJR5251000R0202
ABB 07EB62R1 GJV3074342R1	View ABB 07EB62R1 GJV3074342R1

FAQ, Related Products and Sources

QUESTION	ANSWER
How much RAM does ABB PM253V01 provide?	The documented memory capacity is 1 MB RAM.
How many I/O units can ABB PM253V01 supervise?	ABB specifies support for up to 32 I/O units.
Which serial interfaces does ABB PM253V01 provide?	It provides two RS-232 channels with documented rates from 75 to 38400 bit/s.
Does ABB PM253V01 include SattBus?	Yes. ABB specifies one supervised SattBus channel.
Which backup battery is documented for ABB PM253V01?	ABB specifies a 3.6 V, 1.75 Ah lithium backup battery.
What confirms ABB PM253V01 commissioning?	The approved program, I/O supervision, both serial channels, SattBus and retained clock must pass controlled checks.

MODEL	APTER POWER PAGE
ABB 07KP60R101 GJV3074360R101	View ABB 07KP60R101 GJV3074360R101
ABB 07NG61R1 GJV3074311R1	View ABB 07NG61R1 GJV3074311R1
ABB 07PS62R2 GJV3074332R2	View ABB 07PS62R2 GJV3074332R2

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