

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

Document scope

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

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PM253V01

Technical Specifications

PARAMETER	VERIFIED VALUE
Product identity	PM253V01
Controller family	Advant Controller 250
Processor	Motorola MC68020
Clock frequency	16.7 MHz
Floating-point unit	Yes
RAM	1 MB
Maximum I/O units	32
Serial channels	2 RS-232 channels

PARAMETER	VERIFIED VALUE
Serial rates	75 to 38400 bit/s; 9600 bit/s default
SattBus	One supervised channel
Real-time clock	Supported
RTC accuracy	10 ppm normal; 50 ppm on backup
Backup battery	3.6 V, 1.75 Ah lithium
Connectors	200-BPP and 9-pin female D-sub
Internal current	0.6 A maximum
Backplane key code	5

Engineering boundary

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

Functions and Applications

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.

Common Applications

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.

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 PM253V01 marking before work.
2	Back up the controller program and retained configuration.
3	Record both RS-232 channel settings and cable assignments.
4	Record the SattBus channel and connected system nodes.
5	Check the backup battery and real-time-clock retention plan.
6	Confirm the backplane key code and mating connector before insertion.
7	Restore only the approved application and communication values.
8	Verify I/O, serial communication, SattBus and clock operation before release.

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.
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.

Related Products

MODEL	APTER POWER PAGE
ABB 086363-002	View ABB 086363-002
ABB 086364-001	View ABB 086364-001
ABB 0G0010-00-090	View ABB 0G0010-00-090

Model-Specific FAQ - Part 2

QUESTION	ANSWER
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.

Related Products and Release

MODEL	APTER POWER PAGE
ABB 1HSB495663-3	View ABB 1HSB495663-3
ABB P4LR 1KHL015107R0001	View ABB P4LR 1KHL015107R0001
ABB G4AI 1KHL015623R0001	View ABB G4AI 1KHL015623R0001

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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