

Installation Identity and Scope

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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	PM253V01
Manufacturer	ABB
Hardware role	Processor Module
System family	Advant Controller 250

Controlled engineering copy

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

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Pre-Installation Plan

NO.	REQUIRED ACTION
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.

Before Energization

CONTROL	REQUIRED RECORD
Identity	Complete PM253V01 marking and hardware role
Connections	Approved power, grounding and protocol interfaces
Configuration	Controlled backup, addressing and protocol files
Test plan	Defined acceptance values and controlled restart authority

Release hold point

Do not disturb the installed device until exact marking, interfaces, companion hardware and configured function are documented.

Wiring, Network and Configuration Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
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
Serial rates	75 to 38400 bit/s; 9600 bit/s default
SattBus	One supervised channel

Configuration boundary

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

Expected Technical Values

PARAMETER	VALUE
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

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Manufacturer and complete PM253V01 marking match the record.
Power	Measured supply agrees with the documented operating requirement.
Interface	Connectors, addressing and network parameters match the approved project.
Configuration	Protocol files, framing and mapped data areas match the controlled backup.
Diagnostics	No unexplained status, counter or communication fault remains.
Functional proof	Controlled bidirectional data transfer completes successfully.
Release	Final values and test results are retained with restart approval.

Questions to Resolve

QUESTION	ENGINEERING 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 1KHW001381R0001	View ABB 1KHW001381R0001
ABB 1KHW001432R0001	View ABB 1KHW001432R0001
ABB DI811	View ABB DI811

Source, Related Products and Release

MODEL	APTER POWER PAGE
ABB TU831V1 3BSE013235R1	View ABB TU831V1 3BSE013235R1
ABB DSBC174 3BSE012211R1	View ABB DSBC174 3BSE012211R1
ABB SR511 3BSE000863R1	View ABB SR511 3BSE000863R1

MANUFACTURER SOURCE RECORDS

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

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	PM253V01 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
Functional proof	Controlled test completed without unexplained fault

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PM253V01