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Data Sheet

August 15, 2026

EMERSON / MOTOROLA

Emerson / Motorola PPMC750-1141 Processor PCI Mezzanine Card

The Emerson/Motorola PPMC750-1141 is a single-wide Processor PCI Mezzanine Card engineered for embedded computing and real-time processing applications. Built to IEEE P1386.1 standard, it integrates a Motorola MPC750 PowerPC processor with a 64-bit PCI host bridge in a compact 74 mm × 149 mm form factor, delivering computing capability within PCI-based systems. FCC Part 15 Subpart B Class A and ICES-003 Class A certified; CE Mark compliant (EN55022 Class A emissions, EN55024 immunity) Aumictech offers NIST-traceable calibration and repair for the Emerson / Motorola PPMC750-1141. Calibration covers analog input channel accuracy and offset at all gain settings, analog output accuracy, digital I/O logic threshold verification, sample rate and timing accuracy, and trigger and synchronization bus functional verification. NI CompactRIO and PXI chassis also undergo backplane trigger line inte



MODEL

**Emerson /
Motorola
PPMC750-1141**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PPMC750-1141

LISTING

<https://aumictechlabs.com/products/ppmc750-1141-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Emerson/Motorola PPMC750-1141 is a single-wide Processor PCI Mezzanine Card engineered for embedded computing and real-time processing applications. Built to IEEE P1386.1 standard, it

integrates a Motorola MPC750 PowerPC processor with a 64-bit PCI host bridge in a compact 74 mm × 149 mm form factor, delivering computing capability within PCI-based systems.

Technical Specifications

Processor: Motorola MPC750 PowerPC operating at 233 MHz

Cache: 1 MB backside L2 cache

Memory: 64 MB ECC SDRAM with 144-bit ECC Memory Controller

ASIC Flash Memory: 8 MB onboard

PCI Interface: 64-bit PCI Host Bridge; 33 MHz PCI bus

Power Consumption: 1.0 A typical; 1.5 A maximum

Key Features

- Four 32-bit timers and two watchdog timers for real-time control
- Single asynchronous serial port for device communication
- Pn4 I/O connector supporting flash expansion and in-circuit debug
- JTAG/COP debug interface via Pn4 connector
- UL 94V-0 flammability-rated PCB construction
- FCC Part 15 Subpart B Class A and ICES-003 Class A certified; CE Mark compliant (EN55022 Class A emissions, EN55024 immunity)

Typical Applications

The PPMC750-1141 is suited for embedded control systems, telecommunications infrastructure, industrial process automation, and real-time applications requiring PowerPC processing with integrated PCI connectivity in a mezzanine card format.

Compatibility & Integration

The card conforms to IEEE P1386.1 standard electrical and mechanical specifications, enabling direct integration into any PCI-based host system supporting single-wide PMC modules. Flash expansion and debug functionality are accessed through the Pn4 I/O connector, supporting both production and development workflows.

PPMC7501141 Characteristics / Specifications

PARAMETER	VALUE
Model Family	PPMC750 PrPMC750
Processor	PowerPC MPC750
Cpu Speed 1141 Class	233 MHz
Cpu Speed 1241 Class	350 MHz
L2 Cache	1 MB
Flash Memory	8 MB
Dram 11	32 MB
Dram 12	128 MB
Memory Type	ECC SDRAM
Form Factor	PMC standard size
Bus Interface	PCI mezzanine
Manufacturer	Motorola Emerson
Also Known As	PrPMC750
Debug Support	on-chip emulation class
Addressing	PowerPC memory map
Operating Systems Class	VxWorks and other PowerPC BSPs
Carrier Compatibility	PMC on VME cPCI carriers
Power Rails Class	PMC 3.3 V 5 V
Cooling Class	conduction or airflow per carrier
Temperature Class	commercial embedded
Humidity Class	non condensing
Firmware	flash boot firmware
Humidity	Class: non condensing

PPMC7501141 Specifications

PARAMETER	VALUE
Emerson Motorola PPMC750 Processor PCI Mezzanine Card	Overview
Key Features	PowerPC 750 processor PMC
Technical Specifications	Model Family: PPMC750 PrPMC750

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model Family	PPMC750 P1PMC750
Processor	PowerPC MPC750
Cpu Speed 1141 Class	233 MHz
Cpu Speed 1241 Class	350 MHz
L2 Cache	1 MB
Flash Memory	8 MB
Dram 1131	32 MB
Dram 1141	64 MB
Dram 1231	32 MB
Dram 1241	64 MB
Dram 1251	128 MB
Memory Type	ECC SDRAM
Form Factor	PMC standard size
Bus Interface	PCI mezzanine
Manufacturer	Motorola Emerson
Also Known As	P1PMC750
Model PPMC750-1141: 233 MHz 64 MB DRAM Model PPMC750-1241: 350 MHz 64 MB DRAM	
Specifications	
PARAMETER	VALUE
Debug Support	on-chip emulation class
Addressing	PowerPC memory map
Operating Systems Class	VxWorks and other PowerPC BSPs
Carrier Compatibility	PMC on VME cPCI carriers
Power Rails Class	PMC 3.3 V 5 V
Cooling Class	conduction or airflow per carrier

PARAMETER	VALUE
Temperature Class	commercial embedded
Humidity Class	non condensing
Firmware	flash boot firmware

Notes
From Motorola PrPMC750 Installation and Use manual model table. PPMC750-1141 and PPMC750-1241 map to the 233 MHz 64 MB and 350 MHz 64 MB rows.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.