Because Motion Matters™

KOLLMORGEN

**PCMM** 

# Powerful Motion Controller in Small and Simple Package

From complete manufacturing lines to small, automated desktop machines, OEMs want a controls platform that scales to meet a broad range of requirements. The PCMM™ programmable motion controller delivers a small yet powerful and cost-effective hardware platform ideally suited for modular or stand-alone machines that want the maximum in flexibility and performance.

The PCMM controller is programmed using Kollmorgen Automation Suite's (KAS) Integrated Development Environment (IDE) and is plug-and-play compatible with Kollmorgen's broad range of motion control solutions.

KAS will help you reduce development time through easy-to-use and programming interface, built in utilities and configuration screens, and singleclick simulation.

### PCMM™ Features and Integration

#### **Hardware Features**

- Up to 1.2GHz CPU meets the performance requirements for a broad range of machines
- Up to 32 axes of synchronized path control and 128 axes of coordinated motion
- 100BaseT connection supporting TCP/IP, MODBUS, EthernetIP®, Profinet® to host PLC, computer, or network to easily interface with most manufacturing systems
- Cycle times as low as 250 μs
- Alphanumeric display for fast diagnostics and system troubleshooting
- Removable SD memory card for simple backup/restore and file storage
- On-board digital I/O with support for expansion I/O via EtherCAT
- Compact size reduces cabinet space and cost

#### **Software Features**

- IEC 61131-3 programmable automation and motion controller
- EtherCAT master for high-performance motion and device synchronization
- PipeNetwork™ motion engine for visual programming
- · Embedded RTOS for guaranteed performance and stability
- Integrated webserver for remote diagnostics and status checking
- · Ideal design for modular machines and flexible manufacturing systems

#### **System Integration**

- Seamless integration with Kollmorgen's AKD® servo drives, AKM® rotary servomotors, AKI® HMIs, and AKT® fieldbus I/O modules for complete automation solution
- Network communication via OPC, MODBUS, TCP/IP, UDP, and common fieldbus for fast integration into your machine or factory
- Intuitive EtherCAT configuration tools built into KAS IDE simplifies network configuration
- Integrated Kollmorgen Workbench® for rapid servo tuning and machine optimization





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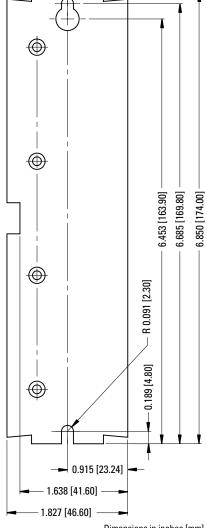
### **General Features and Specifications**

Processor	Available with 1.2GHz or 800MHz CPU		
Internal Memory	64 MB Flash memory for program storage		
External Memory	Removable SD card (not included)		
Input Power	24 Vdc @ 1.25 A		
Operating Temperature	0 °C - 40 °C		
Sealing	IP20		
Local I/O	6 digital inputs, 2 digital outputs		
Motion Network	EtherCAT, max 4kHz update rate		
PLC Programming	IEC-61131-3, support for all 5 languages		
Motion Programming	PLCopen or PipeNetwork®		
HMI Programming	KVB programming for AKI panels		
Dimensions	174mm (H) x 46.6mm (W) x 111.5mm (D)		
Certifications	CE / UL (planned)		

### PCMM™ Nomenclature



1 Family	AKC = Advanced Kollmorgen Controller			
2 Model	PCM = PCMM			
3 Processor	MC-080 = 800 MHz Standard Multi-axis Controller			
	M1-120 = 1.2 GHz High Performance Multi-axis Controller			
4 Hardware	00N = No HW options			
<b>5</b> Options	00 = (reserved)			
6 Documentation	000 = Standard	E00 = English	D00 = German	



Dimensions in inches [mm]

## Software: Programming and Utilities

#### KAS IDE is the all-in-one programming, configuration, and diagnostic tool.

- Embedded web-server provides secure remote access from any web-browser for quick diagnostics, machine status-checking and application start/stop/resume/download
- Launch Kollmorgen Visualization Builder (KVB) from KAS IDE to create custom HMI screens for machine operation
- Integrated AKD® Workbench for easy drive commissioning and tuning
- Multichannel digital scope for machine verification and troubleshooting
- One-click simulation for easy software test and validation



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