Because Motion Matters™

# 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<sup>TM</sup> 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 single-click 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<sup>™</sup> 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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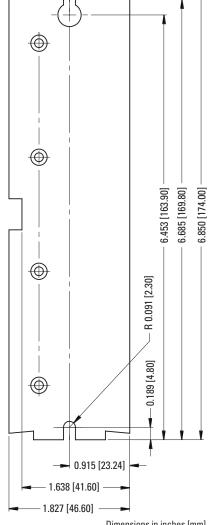
## General Features and Specifications

Available with 1.2GHz or 800MHz CPU		
64 MB Flash memory for program storage		
Removable SD card (not included)		
24 Vdc @ 1.25 A		
0 °C - 40 °C		
IP20		
6 digital inputs, 2 digital outputs		
EtherCAT, max 4kHz update rate		
IEC-61131-3, support for all 5 languages		
PLCopen or PipeNetwork®		
KVB programming for AKI panels		
174mm (H) x 46.6mm (W) x 111.5mm (D)		
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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