# RMP 500
Programmable I/O Controller

RMP 500

The RMP 500 is an **Adaptable Product Controller** that can even serve as a **Cost-Effective PLC Alternative** in some applications. We created the RMP Product Family to offer you state of the art technology in an easily programmed and adaptable/customizable format to allow for updating existing product controls with technologies, such as:

▶ Realtime clock with battery backup

▶ Isolated user selectable I/O

▶ USB host

▶ Ethernet

▶ USB device

▶ Serial communication ports

▶ Touchscreens available as options

APPLICATIONS:

▶ Food Processing Equipment

▶ Material Handling

▶ Automated Tester
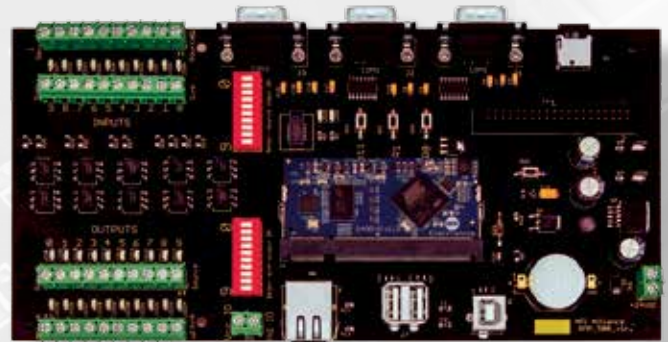
Touchscreen Display Options

▶ Field proven
▶ Quick turn for standard product design
▶ Customizeable for your specific requirements

AVAILABLE MODELS:
RMP 543 – 4.3" Display - Tethered
RMP 550 – 5.0" Display - Tethered
RMP 570 – 7.0" Display - Tethered

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API ALLIANCE
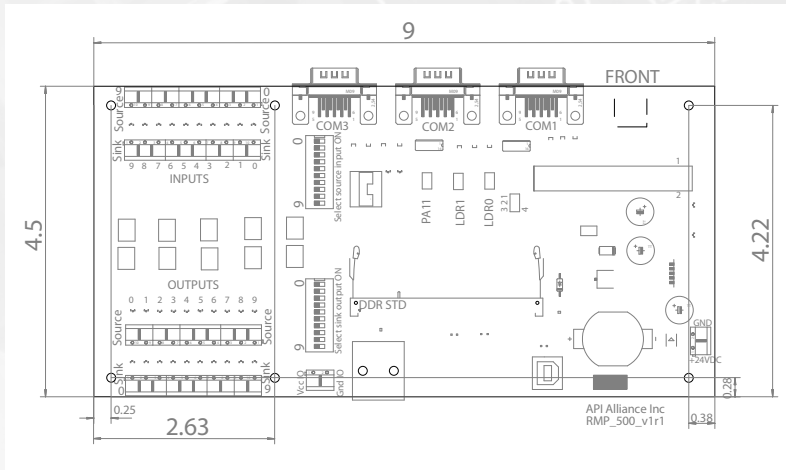
About the RMP 500
Adaptable Product Controller

Cost-Effective PLC Alternative

The RMP 500 is a powerful controller, which utilizes a System on Module (SoM) running .NET Micro Framework, which enables users to program the SoM from Microsoft's Visual Studio using C# or Visual Basic and allows developers to take advantage of the extensive built-in libraries for networking, file systems, graphical interfaces and peripherals. The RMP 500 includes 128 Mbytes of DDR SDRAM, 4 Mbytes of serial Flash. Embedded LCD Controller. USB host/device with drivers. 4 bit SD card interface. Plenty of essential peripherals such as GPIO, SPI, UART, 12C, CAN, ADC and PWM Ethernet and WiFi. Supports Visual C# and Visual Basic Programming.

FEATURES:

Processor:	400 MHz 32-bit ARM 926EJ-S Core
System Platform:	.Net Micro Framework
User Available Flash:	4 MB
User Available RAM:	128 MB DDR2
UART:	5
SPI:	3
12C:	Yes
Networking:	Ethernet TCP/IP, WiFi, and SSL
CAN:	2
USB Device:	1
USB Host:	2
1-Wire:	Yes
Real Time Clock:	1
In-Field Update:	Yes
Native LCD Controller:	Yes
Supported Image Type:	BMP, GIF, JPG
Memory Cards:	Yes
File System:	FAT16/FAT32
Power Consumption:	150 mA
Operation Temp.:	-40° C to +85° C
Graphics with Touch Screen Display:	Various options available