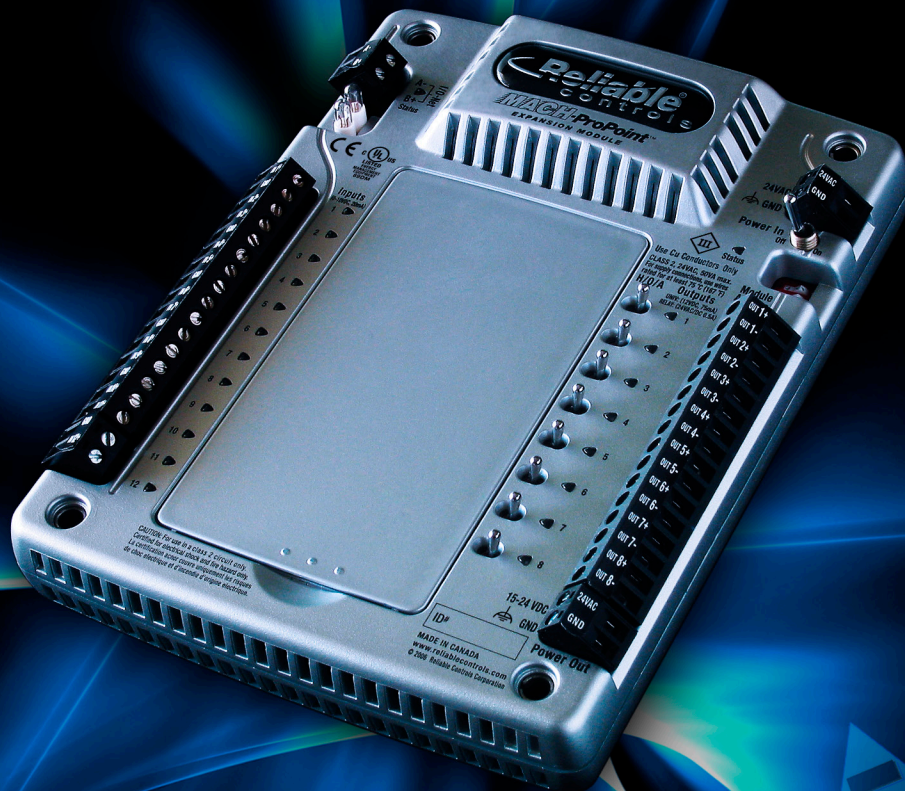




MACH-ProPoint™
I/O Expansion Module

Modular, flexible I/O

Add modular inputs and outputs to any Reliable Controls® MACH-ProCom™ or MACH-ProSys™ controller with this flexible, general purpose input/output expansion module.



5 year
Warranty



Better by design

www.reliablecontrols.com/MPP

TECH SPECS

Supply Voltages

- 24 VAC/VDC, 75 VA max.

Communications

- Dedicated EIA-485 I/O-Net port for communications to host MACH-ProCom™ or MACH-ProSys™ controllers
- Baud fixed at 76.8 kbps

Universal Inputs

- 12 universal inputs
- 12-bit ADC
- Analog: 0–5 VDC, 0–10 VDC, 4–20 mA, thermistor
- Digital: dry contact
- Impedance:
 - 1 M Ω for 0–5 VDC range
 - 1 M Ω for 0–10 VDC range
 - 250 Ω for 4–20 mA range
 - 20 k Ω pull-up for thermistor/dry contact range
- 150 Hz pulse counting (supports flow meters)
- 24 VAC over-voltage protection

8 Outputs

- 12-bit DAC
- First four outputs are socketed to accommodate relay, TRIAC, or universal modules (output modules sold separately)
- Analog: 0–12 VDC
- Digital: 0–12 VDC
- Manual ON provides adjustable 0–12 VDC (HOA only)
- LED indicator (glows proportionally)
- Output power: 75 mA @ 12 VDC
- 24 VAC over-voltage and short protection

Peripheral Power

- Onboard variable 15–24 VDC power supply providing up to 200 mA of DC power to peripheral devices (If powered with 24 VDC, the maximum voltage output is 22 VDC)

Dimensions

- 17.9 cm L x 13.7 cm W x 3.9 cm H (7" L x 5 3/8" W x 1 1/2" H)

Mounting

- #8 clearance holes on 15.6 cm L x 11.0 cm W (6 1/8" L x 4 5/16" W)
- Screw depth 25 mm (1")

Weight

- 1.0 kg (2.1 lb.)

Ambient Limits

- Operating: -20 °C to 55 °C (-4 °F to 131 °F)
- Shipping: -40 °C to 60 °C (-40 °F to 140 °F)
- Humidity: 10% to 90% RH non-condensing

FEATURES

Superior Design

- Status LED per I/O, glows proportional to voltage level
- Robust, 45° screw terminal
- Reversible door flips to conveniently show points list

12 Inputs

- Universal ranges

8 Outputs

- Outputs 1–4 are wired to unpopulated sockets
- Outputs 5–8 are universal (no sockets)
- Output modules are sold separately

Mounting

- The MACH-ProPoint™ I/O conveniently mounts in the same enclosure as the MACH-ProCom™ and MACH-ProSys™ or mounted at a distance in separate enclosures in the same space

Warranty

- 5 years

ORDERING

MPP-IO

- MACH-ProPoint™ I/O expansion module with 12 universal inputs and 8 outputs

MPP-IO-H

- MPP-IO with HOA (Hand/Off/Auto) switches and pot adjust

MPP-IO-DL

- Door lid decal kit for MP-S, MP-S-H, MPW-S, MPW-S-H, MPP-IO, and MPP-IO-H

ACCESSORIES

RM

- Relay output module (package of 10)

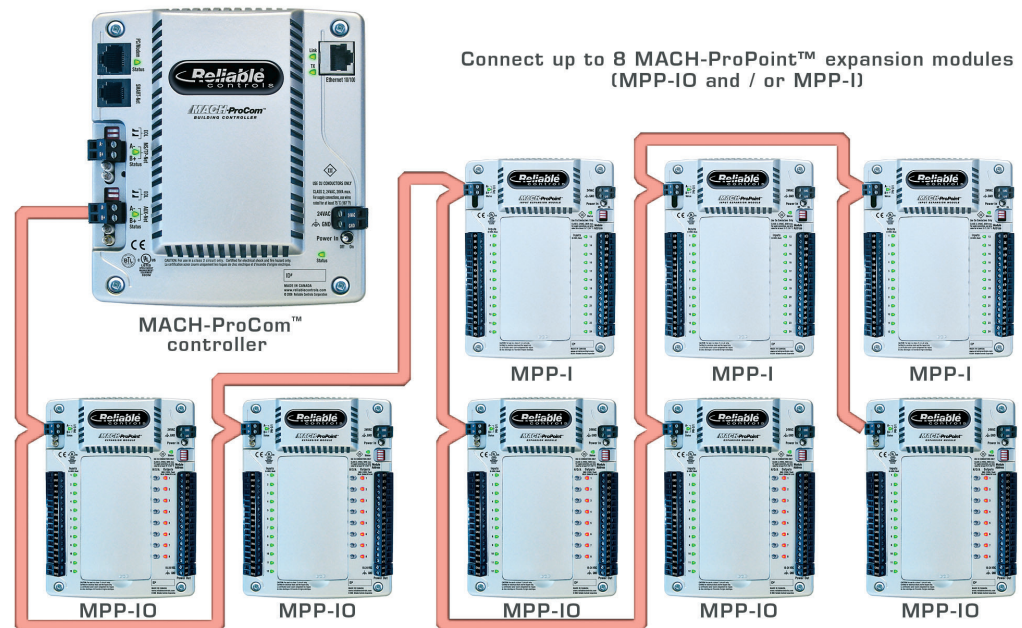
UM

- Universal output module (package of 10)

TM

- TRIAC output module (package of 10)

Expansion Module Layout



Connect up to 8 MACH-ProPoint™ expansion modules (MPP-IO and MPP-I) with a maximum possible input count of 128, a maximum possible output count of 64, and a maximum total I/O of 160 per controller. Expansion modules are daisy-chained to the I/O-Net port of a MACH-ProCom™ or MACH-ProSys™ in any combination while limiting the total inputs, outputs, and modules below maximum.