



# Type 8542-1003 8542-1008

The 8542-1003 is a high-performance I/O processor used to remotely control a mix of both analog and digital I/O modules using the 8542-1008 I/O mounting rack.

The 8542-1003 can be used with either a controller or a host computer. On-board intelligence enables many distributed control functions. Since the analog and digital modules have the same footprint, the I/O processor can be combined with any combination of analog and digital modules.

The B3000 communicates with a host processor serially over RS485 twisted pair wiring and supports high-speed communication.

## FEATURES

- Convenient pluggable connector for removable top mounted field wiring.
- Ready access to standard fuses.
- Single distributed I/O processor does it all - analog, digital, or mixed I/O.
- Highly visible LED status indicator for each channel.
- High-density digital I/O (Four channels per module).
- Mix analog and digital modules on the same rack.
- High-density (dual channel inputs), software-configurable, intelligent analog I/O.
- Quick and easy installation - modules "SNAP" securely on racks, no screws required.

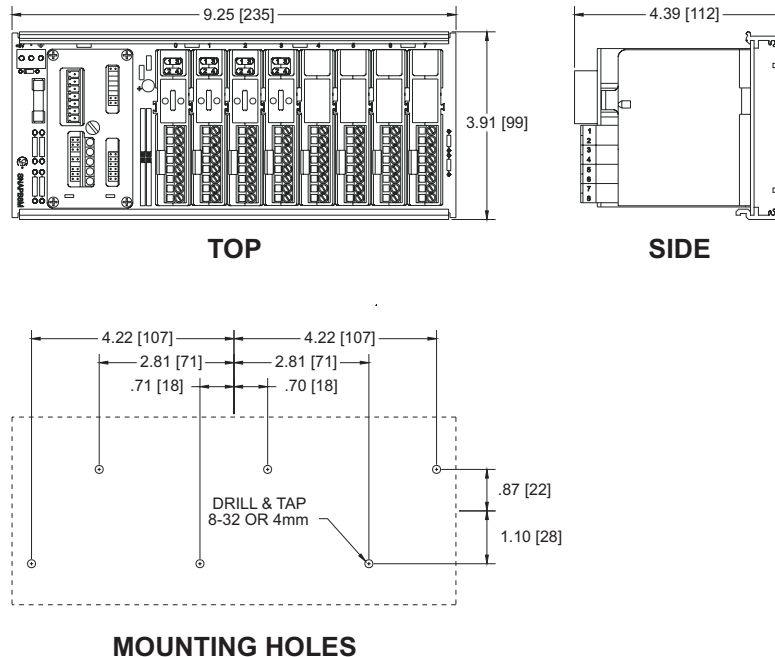


## IO MOUNTING RACK WITH PROCESSOR

ANALOG/DIGITAL BRAIN 8542-1003 SNAP-B3000  
8-MODULE RACK 8542-1008 SNAP-B8M

**PRIME MOVER CONTROLS INC.**

## DIMENSIONS FOR 8542-1008 IO MOUNTING RACK WITH 8542-1003 PROCESSOR



SCALE 1:4

### SPECIFICATIONS:

- Power Requirements: 5.0 VDC  $\pm$  0.1 VDC @ 1.8A max. (Processor requires 1 Amp, Analog modules require 200mA each, Digital modules require 50mA each)
- Communications Interface: RS-485/422, 2- or 4-wire, twisted pair(s), with shield
- Data Rates: 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 76800, and 115200 baud
- Range: Multidrop Unlimited. (Up to 3,000 feet or 32 stations maximum between repeaters)
- LED Indicators: RUN (Power On), RCV (Receive), XMT (Transmit), (IRQ) Interrupt, and (PGM) Program
- Options: Jumper Selectable:
  - Address
  - Communication baud rate
  - CRC/Checksum
  - Binary/ASCII
  - Mystic/Optomux Emulation
- Operating Temperature: 0° to 70°C, 95% humidity, non-condensing
- Vibration: frequency range 2-100 Hz  
Velocity amplitude 100mm/sec below 13.2 Hz  
Acceleration amplitude 0.7g above 13.2 Hz
- Dimensions:  
235mm L  $\times$  99mm W  $\times$  112mm H  
(9.25" L  $\times$  3.91" W  $\times$  4.39" H)
- Weight 570 g (20 oz)



PROD\_REF8542\_PLC/CIC\_BULLTN1003/SB\_MNRR00.CDR

## PRIME MOVER CONTROLS INC.

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