



Type 8542-1000

The 8542-1000 is a powerful industrial controller that provides real-time control and communication to input/output (I/O) systems, serial devices, motion controllers and networks.

The 8542-1000 modular controller features powerful communication capabilities, built-in diagnostics, a 32-bit processor and a variety of expansion options.

The 8542-1000 provides power and performance in a package that integrates seamlessly with other 8542 series products. Designed specifically for industrial applications, the controller provides Ethernet, ARCNET and serial communication options for unmatched flexibility.

The 8542-1000 handles program control and host communications with a powerful 32-bit Motorola microprocessor. This processor board is combined with a 4-slot expansion bus.

Standard communication ports include the following:

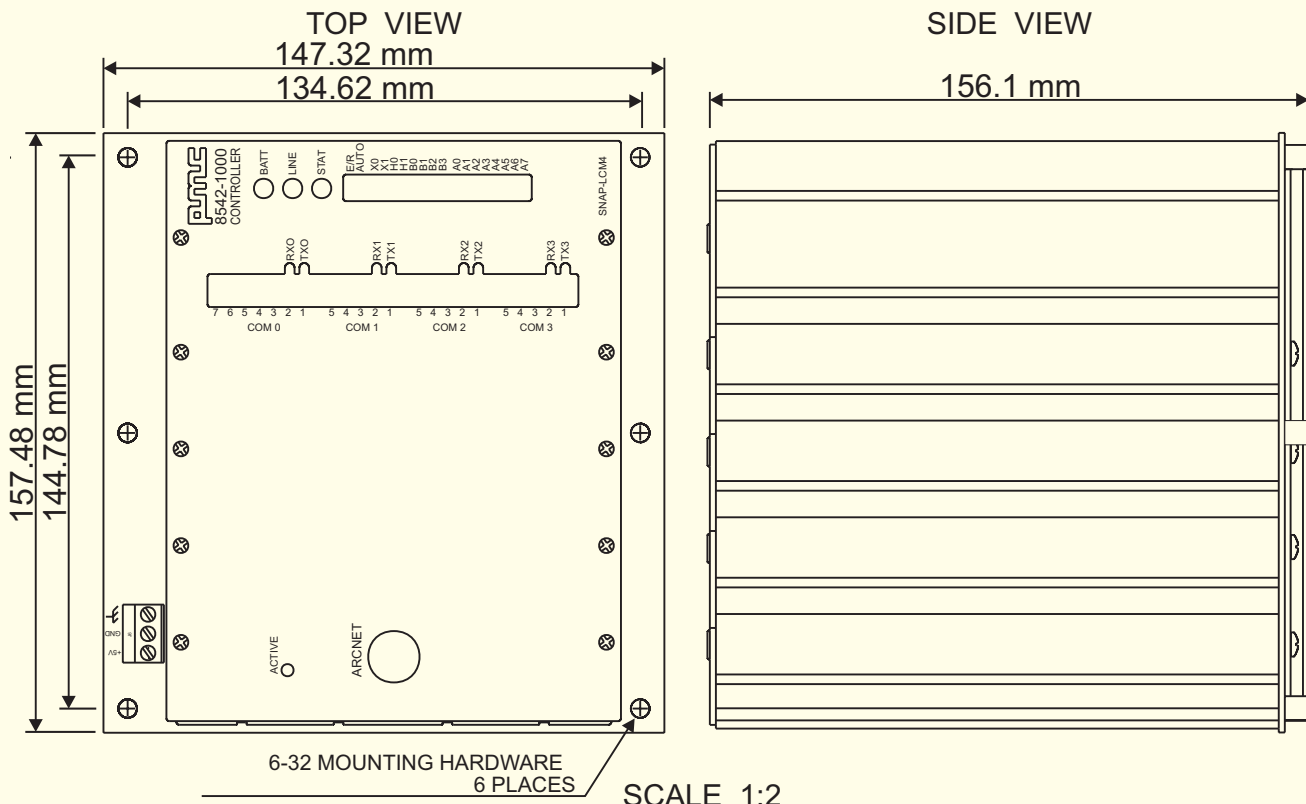
- One dedicated remote I/O port (2-wire RS-485 with interrupt capability)
- Three RS-232 or RS-485 (2-wire or 4-wire) serial ports with baud rates up to 115.2 kBd

MODULAR CONTROLLER

MODULAR M4 CONTROLLER SNAP -LCM4



DIMENSIONS FOR 8542-1000 MODULAR CONTROLLER



SCALE 1:2

SPECIFICATIONS:

- CPU: 32-bit Motorola processor
IEEE floating-point math co-processor
- Memory: 4 MB RAM (user programs and data)
2 MB Flash EEPROM (controller firmware and user programs)
- RAM/clock battery: 3.6 V lithium
- Communication, base unit: three RS-232 or RS-485 ports, one dedicated RS-485 remote I/O port with interrupt capability
- Real-time clock: Clock/calendar, Epson 64613 with battery backup, Y2K compliant
- Hard system monitors (including watchdog timer and voltage monitor): Detect main power supply operation and proper microprocessor operation
- Soft system monitors: Program/data corruption. Host and I/O communication

Supply:

- 5 V_{DC} ±0.1
- 1 A (maximum) without expansion cards

Environmental:

- Operating temperature 0 to +70°C
- Storage temperature -40 to +85°C
- Humidity: 5% to 95% non-condensing
- Vibration: range 2 to 100 Hz
Peak to peak amplitude 2 mm below 13.2 Hz
Acceleration 0.7 g above 13.2 Hz

Physical:

- Dimensions:
157.48 mm L × 147.32 mm W × 156.1 mm H
(6.20" L × 5.80" W × 6.50" H)

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