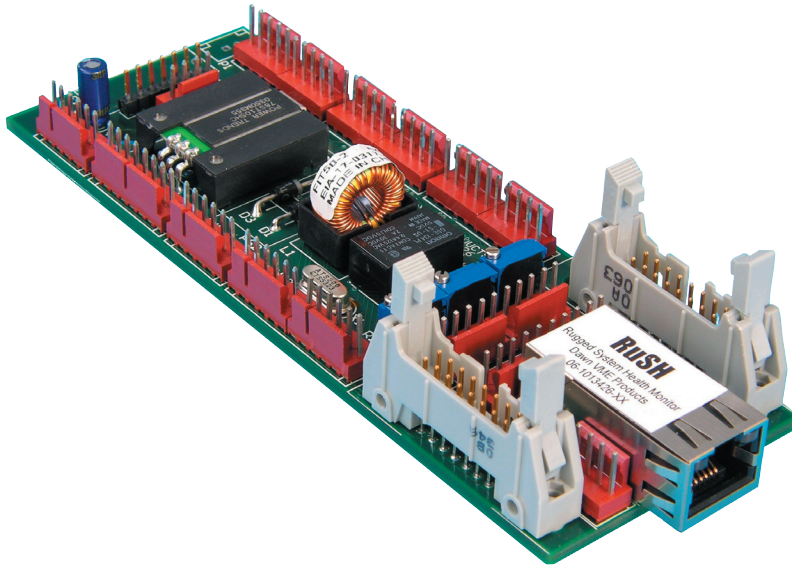


Dawn's New **RUSH™** Microcontroller Technology



Features

- ◆ Monitors chassis temperature, fan operation, power supply DC outputs and other system parameters
- ◆ Menu driven selection allows for easy changes in operation or thresholds
- ◆ Features Dawn's exclusive **RUSH™** microcontroller technology allowing a wide array of user selectable settings
- ◆ Controls fan speed, power supply ON/OFF, backplane RESET, monitors up to 6 voltages (2 negative) and up to 9 tachometer-output fans
- ◆ Two levels of password security
- ◆ Onboard RS-232 and 10/100-BaseT Ethernet ports provide local/remote communication and field upgrades. Telnet, sockets, UDP, protocols (SNMP optional)
- ◆ Allows fault condition automatic shut-down of single or multiple power supplies
- ◆ Automatically logs "Power-On hours" and "Total Elapsed Time" of operation, and minimum or maximum temperatures

Polymeric LED Display



Temperature (°C)



Fan Rotation (RPM)



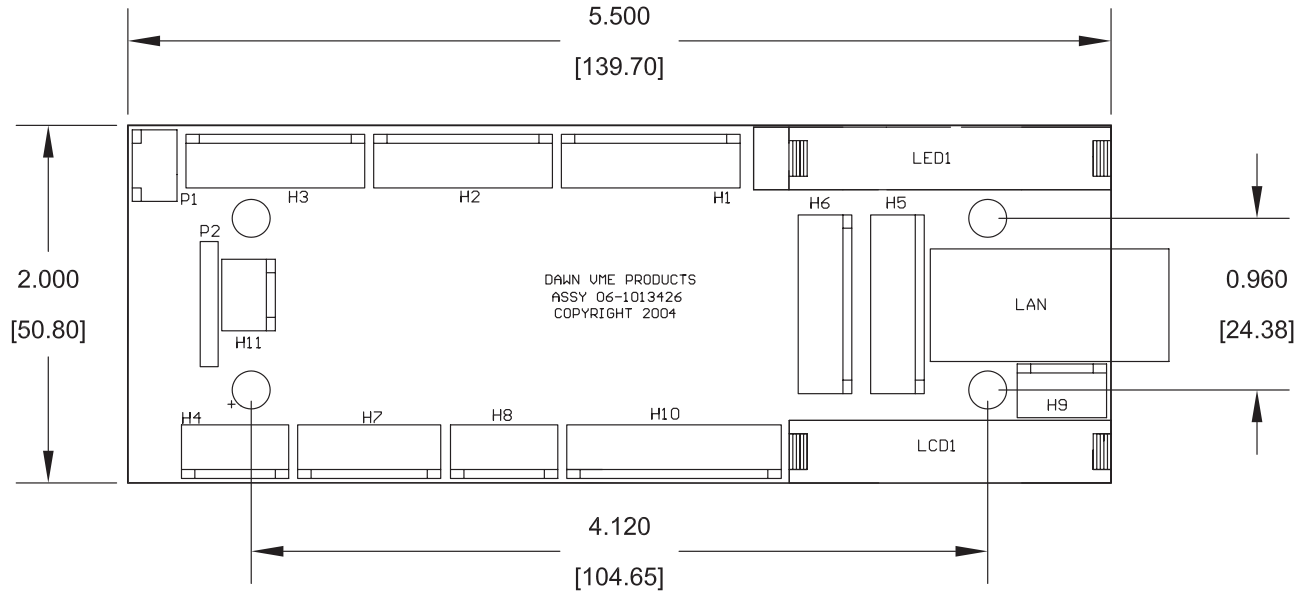
Output System Voltages (DC)



Total Elapsed Hours and Serial Number ID

- ◆ +12VDC, +5VDC and 110VAC(nom) models available
- ◆ Ships as a complete kit including 3 temperature sensors, polymeric LED display, mounting hardware, connectors and cables
- ◆ **Ordering Information**
11-1013426-110R - 85-308VAC Kit
11-1013426-012R - 12VDC Kit
11-1013426-005R - 5VDC Kit
Other models available
- ◆ Firmware can be customized to allow monitoring and control of virtually anything

Board and Mounting Dimensions



Technical Specifications

Monitored Inputs

System Voltages: +3.3VDC, +5VDC, ±12VDC, V1¹, V2² with 10mV accuracy

System Temperature: 4 analog sensors with a standard accuracy of 2°C³

System Fan Speed: Up to 9 tachometer-based fans can be monitored

Note 1: "V1" is a negative output voltage, 0VDC to -36VDC
 Note 2: "V2" is a positive output voltage, 0VDC to +36VDC
 Note 3: 1°C option available

Outputs

System Interrupts: 3 separate open collector interrupts are provided

Fan Speed: Variable-voltage outputs capable of linearly controlling speed of up to 9 fans

Status Display: Polymeric LED or LCD display, both featuring 2-row/20-character alphanumeric display capability

Power Supply Inhibit: 2 separate bipolar opto-isolated 30V/15ma maximum

Data Output: 9600 or 57,600 bps, 8-bit ASCII, RS-232 port, I²C, SMBUS, 1 Wire

Power Consumption (not including fans): 9~35VDC=200ma, 4.5~6.5VDC=250ma, 80~308VAC, 50~440Hz=80ma

System Monitor Board PCBA Weight: 0.1 lb.

Operating Temperature: -20°C ~ 85°, -40°C ~ 100°C (Special Order)

Humidity: <95% RH, non-condensing

Reliability: MTBF >330,000 hours minimum

Add-on Boards: Measure AC Current, DC Current, Airflow in LFM, Pressure and Humidity

Connector Mnemonic and Function

(See above)

Connector Mnemonic	Function
H1	Input for Fans #1, 2 and 3
H2	Input for Fans #4, 5 and 6
H3	Input for Fans #7, 8 and 9
H4	DC Power Input (+5VDC/+12VDC)
H5	Miscellaneous
H6	Voltage Sense
H7	Fan and LCD Backlight Power
H8	Power Supply Control
H9	RS-232 port
H10	Input for Temperature Sensors
H11	Not Used
LCD1	Output for PLED and LCD display
LED1	Output for discrete LED panel
P1	AC input (used only for AC option)
P2	Not Used
LAN	Ethernet 10/100 Base-T (port RJ45)

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