

MIC-3921

Intelligent Monitoring and Alarm Module



Features

- Monitoring: +3.3 VDC, +5 VDC, +12 VDC, -12 VDC system bus voltages
- Four fan sensor inputs for fan speed monitoring
- Three temperature sensor inputs
- One "power good" signal input for power supply monitoring
- Three channels of relay outputs for external alarm connection
- One serial port can be set as RS-232 or RS-485 port, supporting modem output
- Three configurable alarm levels: critical, major, minor
- Audible alarm with three sound effects
- On-board battery backup
- Built-in watchdog timer for self-detection

CE FCC

Introduction

The MIC-3921 is an intelligent PC-system monitoring module. It can detect abnormal system conditions and generate alarm outputs, allowing users to take action before system failure. With the MIC-3921, the MIC-3031, MIC-3032, MIC-3033, and MIC-3081A systems are changed into intelligent, self-diagnostic systems, increasing the reliability of critical applications, such as in communications or computer telephony. The MIC-3921, equipped with a high-brightness vacuum fluorescent display and a control keypad, can be inserted into the MIC-3031, 3032, and 3081A.

Powerful Functions

The MIC-3921 can detect a wide variety of internal system conditions including temperatures, voltages, fan operation and power supply status. It can generate several different alarm outputs including acoustic signals and relay outputs to notify nearby users. It can also send messages through the serial port for remote notification. The on-board CPU allows users to set the alarm criteria for each input sensor independently and to program different alarm outputs.

High Reliability

To ensure operational reliability, the MIC-3921 features a built-in watchdog timer for self-testing. The on-board backup battery enables non-stop operation even in the event of total system power failure.

Remote Monitoring

The MIC-3921 serial port can be configured either as RS-485 to communicate over distances up to 4000 feet, or as RS-232 to connect to other devices such as a modem. Users can remotely monitor a number of computers through a host computer's serial port.

Software Support

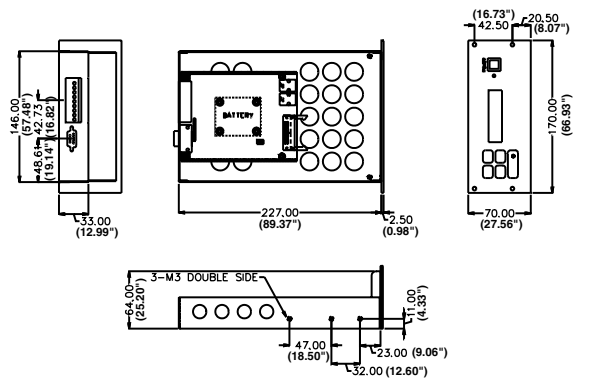
The MIC-3921 is shipped with a powerful and easy-to-use software utility to minimize the time for system integration. "PC Sentry" can run under Windows 95/98/NT. This allows the system host to communicate with one or more alarm modules via the serial port, for configuration, alarm level setting, real-time status display, alarm event logging and so on.

Specifications

| | | | | | |
|------------------|----------------------|--|---------------------------|--------------|--------------|
| Voltage | System Voltage | +3.3 V | +5 V | +12 V | -12 V |
| | | 0 ~ +4.8 V | 0 ~ +6.8 V | 0 ~ +16.32 V | 0 ~ -16.32 V |
| | Voltage Accuracy | 0.5 % of FSR | | | |
| Temperature | Sensor 1 (On Board) | 0 ~ 60 °C (32 ~ 140 °F) | | | |
| | Sensor 2 and 3 | 30 ~ 125 °C (86 ~ 257 °F) | | | |
| | Accuracy | ±3 °C | | | |
| Fan | Sensor 1, 2, and 4 | 700 ~ 10000 rpm | | | |
| | Sensor 3 | 2800 ~ 40000 rpm | | | |
| Power Good Input | Hi | > 2.4 V | | | |
| | Lo | < 0.8 V | | | |
| Relay | Output | NC (normally closed) and NO (normally open) | | | |
| | Power Rating | AC 125 V @ 0.3 A, DC 100 V @ 0.3 A, DC 30 V @ 1 A | | | |
| Serial Port | Interface | RS-232/RS-485 (jumper selectable) | | | |
| | Baud Rate | 1200, 2400, 4800, 9600, 19200 bps | | | |
| | Board ID | 1 ~ 255 (0 for configuration only) | | | |
| Battery | Charge Time | 24 hours | | | |
| | Capacity | 1200 mA-H (full charged, for 0.5 ~ 1 hr operation) | | | |
| Environment | | Operating | Non-Operating | | |
| | Temperature | 0 ~ 50 °C (32 ~ 122 °F) | -20 ~ 70 °C (-4 ~ 158 °F) | | |
| | Humidity | -- | 5~95 % RH, non-condensing | | |
| | Vibration (5-500 Hz) | 1.0 Grms | 2.0 G | | |
| Reliability | MTBF | 100,000 hours | | | |
| Serviceability | MTTR | 5 minutes | | | |

Dimension Diagram

MIC-3921



Unit: mm (inch)

Ordering Information

| Part Number | Descriptions |
|-------------|---|
| MIC-3921-A | Intelligent system monitoring and alarm module with vacuum fluorescent display, keypad and utility CD |