MIC-3924

CompactPCI® Intelligent Chassis Management Module

Features

- Monitors system fans, temperature, voltage, power supply, CPU fan, CPU temperature, Vcore, watchdog timer, etc.
- Stand alone system monitoring: no driver needed, OS independent
- Remote alarm notification through SNMP/HTTP, e-mail or pager
- Easy status monitoring through Ethernet using a browser
- Hot-swap for easy maintenance

Introduction

The MIC-3924 is an independent platform system management module that can detect a system's operating conditions and notify users to take necessary actions to avert system failure through multiple communication protocols. With the MIC-3924 installed, monitoring and managing a system can be integrated with an existing SNMP-based network management environment. The MIC-3924 also has a built-in web-based administration interface which allows users to monitor the system's operation from any place with Internet connectivity.

Sensor Specifications

		MIC-3924A	MIC-3924L
Voltage	Input	+3.3 V_{DC}, +5 V_{DC}, -5 V_{DC}, +5 V_{SR}, +12 V_{DC}, -12 V_{DC}	-
Temperature	Input	1 (onboard)	1 (onboard)
	Sensor	LM75	LM75
	Interface	I2C	I2C
	Range	-30 ~ 125° C (-22 ~ 257° F)	Fix (alarm > 50° C)
Fan Speed	Input	6	6
	Range	700 ~ 10000 rpm	Fix (alarm <1000 rpm)
Power Good	Input	4	4
	Range	High > 2.4 V_{DC}, Low < 0.8 V_{DC}	High > 2.4 V_{DC}, Low < 0.8 V_{DC}
CPU Board Healthy	Interface	I2C	-
	Input	CPU Vcore, CPU fan, CPU temperature (up to 2 CPUs), DC +5 V, DC -5 V, VI/O, DC +12 V, DC -12 V	-
	Max. SBC Monitoring	1 board	-
Digital Input/Output (optional)	Input	8	-
	Output	4	-

Hardware Specifications (MIC-3924A)

Processor System	CPU	80188 compatible	
	Firmware	512 KB Embedded Flash ROM	
	Memory	512 KB SRAM	
Ethernet	Interface	10/100Base-T	
Serial Port	Interface	RS-232	
	Baud Rate	9600 bps	
Miscellaneous	Buzzer support	Yes	
	Time-out Signal for watchdog timer detection	Yes	
Battery	Charge Time	24 hr	
	Battery Type	Ni-MH	
	Capacity	1500 mA-H (full charged, for 15~20 minutes operation, depending on the system configuration)	
	Battery Life	80 % capacity @ 20° C after 1000 cycles of charge and discharge	
Power Requirement	Typical	5 V @ 550 mA	
Environment		Operating	Non-Operating
	Temperature	0 ~ 60° C (-32 ~ 140° F)	-20 ~ 70° C (-4 ~ 158° F)
	Humidity	-	5 ~ 95 % RH, non-condensing
Physical Characteristics	Dimensions (W x D)	Kernel module: 40.5 x 93 mm (1.6" x 3.7") Carrier module: 100 x 95 mm (3.9" x 3.7")	

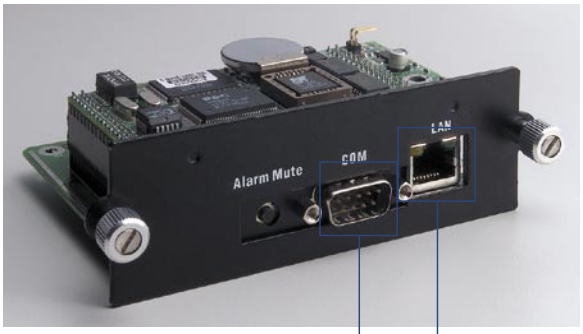
Last updated : 1-Mar-2007

Ordering Information

Part Number	Description
MIC-3924A-BE Chassis management module for general purpose chassis w/single SBC application	
968A390000	MIC-3924A-BE alarm module for MIC-3056, MIC-3081
968A390001	MIC-3924A-BE alarm module for MIC-3038, MIC-3041
968A390002	MIC-3924A-BE alarm module for MIC-3042 and MIC-3043 series
MIC-3924L-AE Chassis management module without remote control for general purpose chassis, w/single SBC application	
968A390020	MIC-3924L-AE alarm module for MIC-3056 series
968A390021	MIC-3924L-AE alarm module for MIC-3038, MIC-3041
968A390022	MIC-3924L-AE alarm module for MIC-3042 and MIC-3043 series

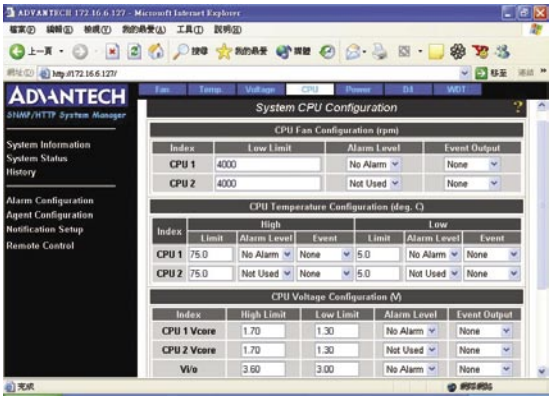
Firmware Specifications (MIC-3924A)

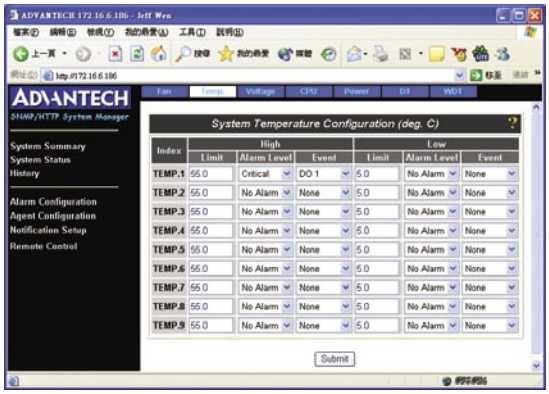
System Status Monitoring and Management	Real-time health status monitoring: Provides real-time status display in HTTP/Java graphical format
	History log up to 600 records. Data can be downloaded through a network or sent by e-mail
	Alarm event record display
Alarm Notification	E-mail: Can set up to 4 e-mail addresses to receive event notification
	SNMP trap: Notify up to 8 SNMP administrators
	Pager notification: Dial-out through external modem to send messages to up to 8 pagers
	Audible alarm sound
Supported Protocols	TCP, UDP, IP, ICMP, DHCP, BOOTP, ARP, SNMP, HTTP, Telnet
Management Function	Web-based remote configure, control and monitor
	Remote power up and power down
	Firmware upgrade from serial port and Ethernet port
	Modem dial in (console mode only)



RS-232 COM port LAN port

Onboard battery





The web-based user interface allows users to set the alarm criteria and select alarm outputs independently for each sensor input.