Micro Alarm Card

3A002-01

KEY FEATURES

- Designed for various architectures including OpenVPX, VME/VME64x, CompactPCI, cPCI Serial, and custom
- Provides the system with basic monitoring and control functions including; voltage levels, PSU health, temperature and fan monitoring/control
- Monitoring of 4 common power rails (5V, 3.3V, 12V, -12V)
- Local bi-color LED and header for remote LEDs
- Alarm cancel push button
- Individual relay contact for power, temperature and fan fault
- USB interface
- Audible alarm
- Monitoring and control of up to 4 fans, monitoring of 2 temperature sensors, 3.3V or 5V operation
- Low power consumption
- Customization available
- Conformal coating optional

The micro alarm card provides the system with basic monitoring and control functions including; voltage levels, PSU health, temperature and fan monitoring/control.

It can be used in various VITA and PICMG standard backplane architecture designs including OpenVPX, VME/VME64x, CompactPCI, and cPCI Serial.

Conformal coating for the micro alarm card is optional. Pixus is ISO9001:2015 and ITAR registered.

Interfaces

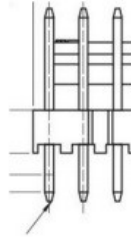| Pin #	Signal
1	ERROR
2	ERROR#
3	VCC (3.3V)

Table 3-1: Remote LED Connector

Signal	Pin #	Pin #	Signal
PWM1	1	2	PWM2
+12V	3	4	5V
TACH1	5	6	TACH2
3.3V	7	8	-12V
TACH3	9	10	TACH4
GND	11	12	GND
TEMP1	13	14	TEMP2
TEMP1R	15	16	TEMP2R
PSU_FAULT#	17	18	5VSB
PWM3	19	20	PWM4
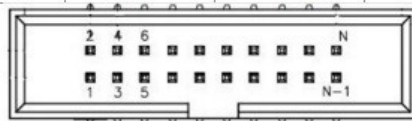
Table 3-2: 20 Pin I/O Connector

Pin #	Signal
1	FAN_COMMON
2	FAN_ERROR
3	POWER_COMMON
4	POWER_ERROR
5	TEMP_COMMON
6	TEMP_ERROR
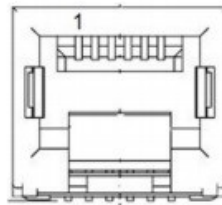
Table 3-4: Alarm Connector

Pin #	Signal
1	USB Power
2	Transmit
3	Receive
4	N/C
5	GND
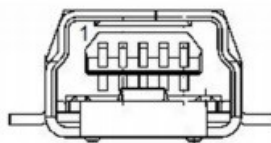
Table 3-5: USB Connector

Specifications

Architecture		
Physical	Dimensions	Approx 80mm x 38mm
Standards		
VITA, PICMG	Type	Used for VITA 1.1, 1.0, and PICMG 2.0 systems.
Configuration		
Power Usage		Approx. 4W Max.
	Temperature	Operating temperature: -20° to +70°C (see configuration option)
		Storage temperature: -55° to +90°C
Environmental	PCB	FR-4 or equivalent
Conformal coating		Upon request (See page 4 selection "C" for available options)
Other		
MTBF	MIL Handbook 217-F @ TBD Hrs.	
Certifications	Designed to meet FCC, CE and EN/UL/TUV certifications where applicable	
Warranty	Two years	
Trademarks and logos	The Pixus Logo is a registered trademark of Pixus Technologies Inc. other registered trademarks are the property of their respective owners. Specs. subject to change without notice.	

Ordering Options
3A002-01

3A002-01– A B C

A = Alarm Card Power

    0 = 3.3V
    1 = +5VSB
    2 = Other

B = Temperature Range

    0 = Commercial (0 C to +55 C) - standard option
    1 = Industrial/MIL (-20 C to +70 C) - consult factory

C = Conformal Coating

    0 = None
    1 = Humiseal 1A33 Polyurethane
    2 = Humiseal 1B31 Acrylic

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Jan 2021, R1.0