# GAOLIN ELECTRONICS

# 3U BACKPLANE WITH POWER CONNECTOR

# **Technology** Specification

CB3001A01-000

Issue Date: 2013-05-18

## **CPCI 3U POWER CONNECT SWITCH BACKPLANE**

### **Technology Specification**

#### **DESIGN ACCORDING TO:**

- CPCI System Management Specification PICMG 2.9 R1.0 (February 2, 2000)
- CPCI Power Interface Specification PICMG 2.11 R1.0 (October1, 1999)

#### **BUS STRUCTURES:**

Slot	PCIHC47	ATX PSU
SPEC		Receptacle

#### **TECHNICAL DATA:**

- Mechanical dimension: 128.7 × 39.64 × 3.6mm (width × height × thickness), support 3U card;
- ➢ PCB Type: 4 layer,
- > Power connector: One ATX Power ,One PCIH47
- Maximum voltage drop on backplane power: <20mV
- ▶ Operating temperature:  $-40^{\circ}$ C ~  $+85^{\circ}$ C
- Storage temperature:  $-55^{\circ}$ C ~  $+85^{\circ}$ C
- ➢ MTBF: 700,000h

### **Backplane Connector Description**

#### **Optional Power Taps :**

The optional power taps are for +5V, 3.3V, +12V, -12V.

#### **I2C:**

System Management.	
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Pin	Signal	Pin	Signal
1	IPMB_PWR	2	NC
3	IPMB_SDA	4	NC

5	IPMB_SCL	6	NC
7	GND	8	GND
9	GND	10	GND

#### Volt:

All the alarm signals and various power supply are connected to it. It is used to connect external monitor module.

Pin	Signal	Pin	Signal
1	-12V	2	NC
3	+12V	4	DEG#
5	3.3V	6	FAL#
7	5V	8	GND
9	INH#	10	GND

**INPUT:** 输入端

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Pin	Signal	Pin	Signal	Pin	Signal
1	ACL/-DC	2	ACN/+DC	3	CGND

#### XP1: **ATX Power Connector**

00 11	Pin	Signal
00	1	+3.3V
00	2	+3.3V
	3	GND
	4	+5V
	5	GND
	6	+5V
	7	GND
00	8	POWER
의의		GOOD
00	9	5V STB
	10	+12V

	-		-	
1	+3.3V	11	+3.3V	
2	+3.3V	12	-12V	
3	GND	13	GND	
4	+5V	14	PS_ON_L	
5	GND	15	GND	
6	+5V	16	GND	
7	GND	17	GND	
8	POWER	18	-5V	
	GOOD			
9	5V STB	19	+5V	
10	+12V	20	+5V	

Pin

Signal

RTN V1

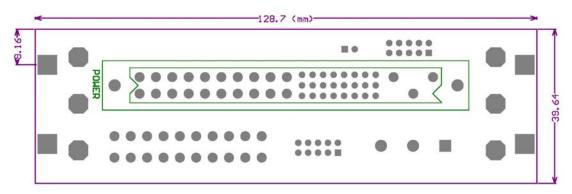
		-				
	0	1	Pin	Signal	Pin	Signal
47			47	ACL/-DC IN	31	GA2
47	° *		46	ACN/+DC IN	30	V1 SENSE
	۰		45	CGND	29	V1ADJ
4.4	0		44	V3 SHARE	28	GA1
44	0 0 0 0 0 0	42	43	IPMB_PWR	27	EN#
	000		42	+FAL#	26	RESERVED
	0 0 0 0 0 0		41	V2 SHARE	25	GA0
23	000	21	40	IPMB_SDA	24	RTN
20	0 0	19	39	INH#	23	RESERVED
	0 0		38	DEG#	22	RTN
	0 0		37	IPMB_SCL	21	V4
	00		36	V3 SENSE	20	V3
	00		35	V1 SHARE	19	RTN
	0 0		34	S RTN	13-18	V2

#### **POWER:** Modular Power 47P Connector

# 2 0 о 0

	41	V2 SHARE	25
21	40	IPMB_SDA	24
19	39	INH#	23
	38	DEG#	22
	37	IPMB_SCL	21
	36	V3 SENSE	20
	35	V1 SHARE	19
	34	S RTN	13-18
	33	V2 SENSE	5-12
	32	V2ADJ	1-4
1			

## BACKPLANE 正面视图



# BACKPLANE 反面视图

