



cPCI 3U8SLOT BACKPLANE

Technology Specification

DS-763108010-100

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DINTEK Electronic Ltd.

ISSUE SPEC:

This technology specification introduces features of DINTEK® CPCI backplane which designed for package switch equipments of telecom, datacom, IPC and others.

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DESIGN ACCORDING TO:

- | CPCI Specification PICMG 2.0 R3.0 (October 1, 1999)
- | CPCI Hot Swap Specification PICMG 2.1 R1.0 (August 3, 1998)
- | CPCI System Management Specification PICMG 2.9 R1.0 (February 2, 2000)
- | Keying of CPCI Boards and Backplanes PICMG 2.10 R1.0 (October 1, 1999)
- | CPCI Power Interface Specification PICMG 2.11 R1.0 (October 1, 1999)

BUS STRUCTURES:

P2	CPCI								DUAL ATX PSU Receptacle
P1									
Slot	1	2	3	4	5	6	7	8	
SPEC	CPCI System Slot	CPCI Peripheral Slots							

TECHNICAL DATA:

- | 8 Slots: 1 System Slot +7 Peripheral slots
- | Mechanical dimension: 176.8 x128.7 x 3.8 (width x height x thickness), support 3U card.
- | PCB Type: 10 layers
- | Power connector: Two ATX Power Receptacle for Redundant PSU
- | Maximum voltage drop on backplane power: <20mV
- | V(I/O): +3.3V / +5V selectable
- | Impedance: 65ohm \pm 10% for trace.
- | Packets switching: 10M/100M/1000M bps
- | Operating temperature: 0°C ~ +70°C
- | Storage temperature: -40°C ~ +85°C
- | MTBF: 700,000h

PIN ASSIGNMENT:

See following tables.

P1 of Slot1

25	GND	5V	REQ64#	ENUM#	3.3V	5V	GND
24	GND	AD1	5V	V(I/O)	AD0	ACK64#	GND
23	GND	3.3V	AD4	AD3	5V	AD2	GND
22	GND	AD7	GND	3.3V	AD6	AD5	GND
21	GND	3.3V	AD9	AD8	M66EN	C/BE0#	GND
20	GND	AD12	GND	V(I/O)	AD11	AD10	GND
19	GND	3.3V	AD15	AD14	GND	AD13	GND
18	GND	SERR#	GND	3.3V	PAR	C/BE1#	GND
17	GND	3.3V	IPMB_SCL	IPMB_SDA	GND	PERR#	GND
16	GND	DEVSEL#	GND	V(I/O)	STOP#	LOCK#	GND
15	GND	3.3V	FRAME#	IRDY#	GND	TRDY#	GND
14	KEY AREA						
13							
12							
11	GND	AD18	AD17	AD16	GND	C/BE2#	GND
10	GND	AD21	GND	3.3V	AD20	AD19	GND
9	GND	C/BE3#	GND	AD23	GND	AD22	GND
8	GND	AD26	GND	V(I/O)	AD25	AD24	GND
7	GND	AD30	AD29	AD28	GND	AD27	GND
6	GND	REQ#	GND	3.3V	CLK	AD31	GND
5	GND	BRSVP1A5	BRSVP1B5	PCI_RST#	GND	GNT#	GND
4	GND	IPMB_PWR	HEALTHY1#	V(I/O)	INTP	INTS	GND
3	GND	INTA#	INTB#	INTC#	5V	INTD#	GND
2	GND	TCK	5V	TMS	TDO	TDI	GND
1	GND	5V	-12V	TRST#	+12V	5V	GND
Pin	Z	A	B	C	D	E	F

P1 of Slot 2~8

25	GND	5V	REQ64#	ENUM#	3.3V	5V	GND
24	GND	AD1	5V	V(I/O)	AD0	ACK64#	GND
23	GND	3.3V	AD4	AD3	5V	AD2	GND
22	GND	AD7	GND	3.3V	AD6	AD5	GND
21	GND	3.3V	AD9	AD8	M66EN	C/BE0#	GND
20	GND	AD12	GND	V(I/O)	AD11	AD10	GND
19	GND	3.3V	AD15	AD14	GND	AD13	GND
18	GND	SERR#	GND	3.3V	PAR	C/BE1#	GND
17	GND	3.3V	IPMB_SCL	IPMB_SDA	GND	PERR#	GND
16	GND	DEVSEL#	GND	V(I/O)	STOP#	LOCK#	GND
15	GND	3.3V	FRAME#	IRDY#	BD_SEL#	TRDY#	GND
14	KEY AREA						
13							
12							
11	GND	AD18	AD17	AD16	GND	C/BE2#	GND
10	GND	AD21	GND	3.3V	AD20	AD19	GND
9	GND	C/BE3#	IDSEL	AD23	GND	AD22	GND
8	GND	AD26	GND	V(I/O)	AD25	AD24	GND
7	GND	AD30	AD29	AD28	GND	AD27	GND
6	GND	REQ0#	GND	3.3V	CLK0	AD31	GND
5	GND	BRSVP1A5	BRSVP1B5	PCI_RST#	GND	GNT0#	GND
4	GND	IPMB_PWR	HEALTHY1#	V(I/O)	INTP	INTS	GND
3	GND	INTA#	INTB#	INTC#	5V	INTD#	GND
2	GND	TCK	5V	TMS	TDO	TDI	GND
1	GND	5V	-12V	TRST#	+12V	5V	GND
Pin	Z	A	B	C	D	E	F

P2 of Slot 1

22	GND	GA4	GA3	GA2	GA1	GA0	GND
21	GND	CLK6	GND				GND
20	GND	CLK5	GND				GND
19	GND	GND	GND	SMB_SDA	SMB_SCL	SMB_ALER T	GND
18	GND						GND
17	GND			PRST#	REQ6#	GNT6#	GND
16	GND			DEG#	GND		GND
15	GND			FAL#	REQ5#	GNT5#	GND
14	GND						GND
13	GND						GND
12	GND						GND
11	GND						GND
10	GND						GND
9	GND						GND
8	GND						GND
7	GND						GND
6	GND						GND
5	GND						GND
4	GND	V(I/O)					GND
3	GND	CLK4	GND	GNT3#	REQ4#	GNT4#	GND
2	GND	CLK2	CLK3	SYSEN#	GNT2#	REQ3#	GND
1	GND	CLK1	GND	REQ1#	GNT1#	REQ2#	GND
Pin	Z	A	B	C	D	E	F

P2 of Slot 2~8

22	GND	GA4	GA3	GA2	GA1	GA0	GND
21	GND						GND
20	GND						GND
19	GND						GND
18	GND						GND
17	GND						GND
16	GND						GND
15	GND						GND
14	GND						GND
13	GND						GND
12	GND						GND
11	GND						GND
10	GND						GND
9	GND						GND
8	GND						GND
7	GND						GND
6	GND						GND
5	GND						GND
4	GND						GND
3	GND						GND
2	GND						GND
1	GND						GND
Pin	Z	A	B	C	D	E	F

Backplane Connector Description

Optional Power Taps :

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

Power On (JP4):

When using ATX power supply, this connector could be used to turn the power supply on if shorted the header of it.

External Reset (JP5):

This connector can reset the system board by shorting the headers of it.

Other (JP2 JP3):

signal	
GND	DEG#
GND	PFS0#

System Management

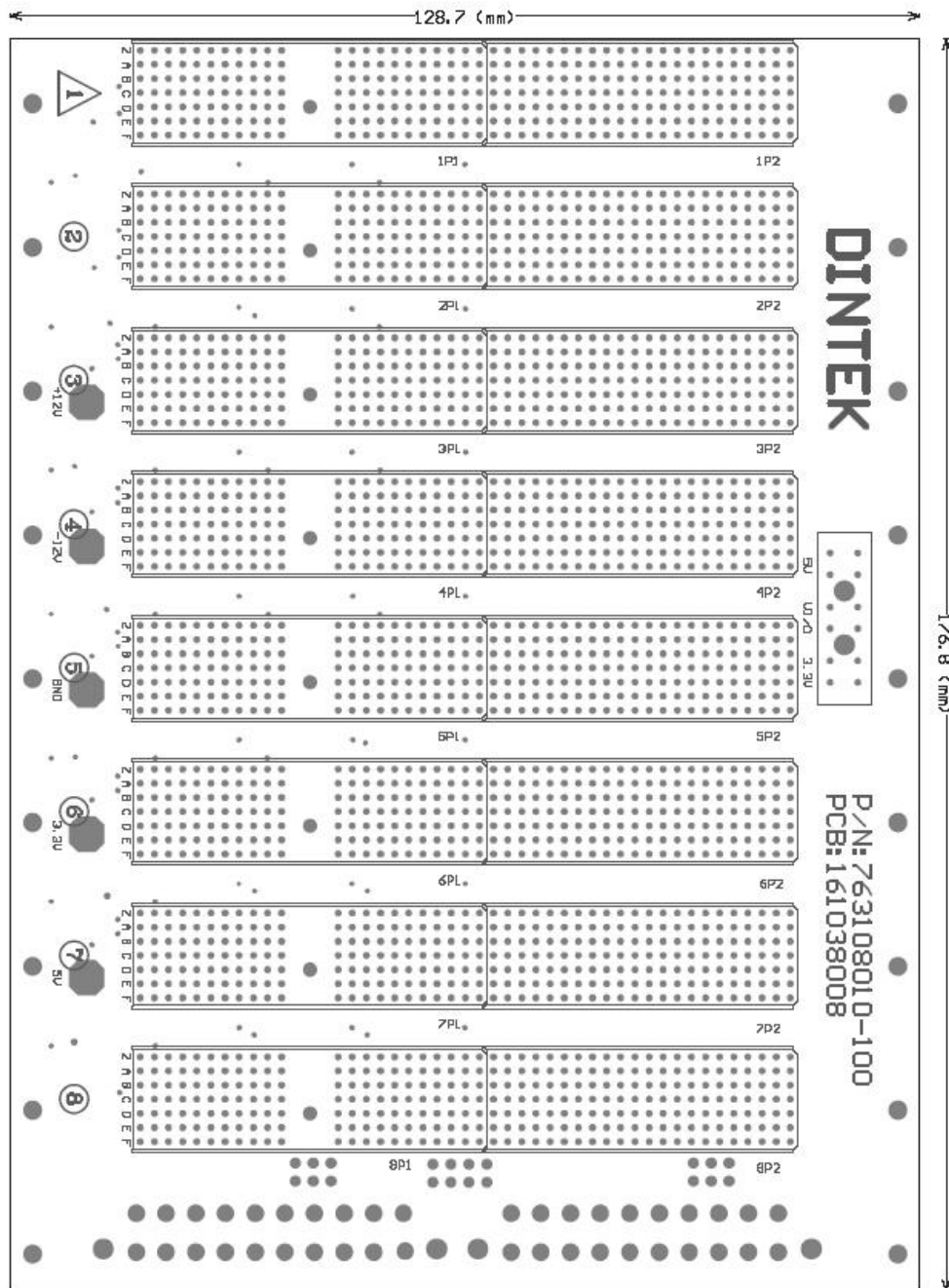
FCOM1:

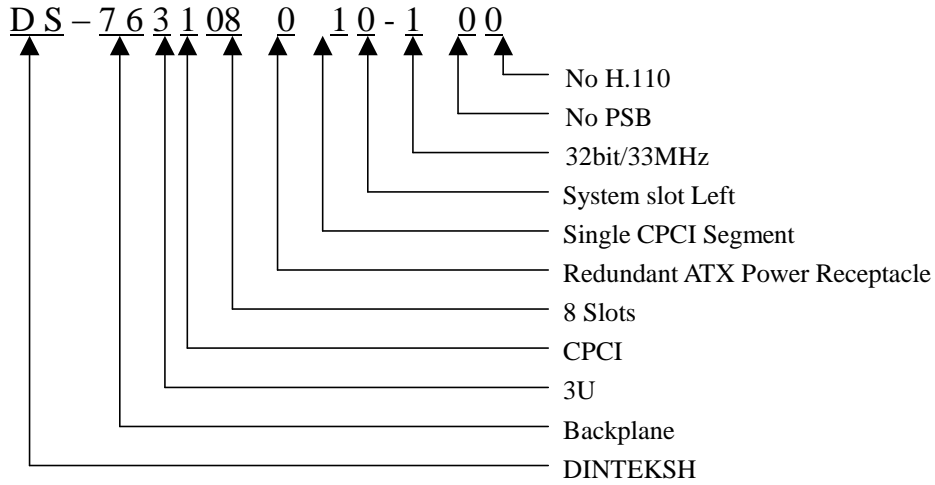
signal	
SMB_SDA	GND
SMB_SCL	GND
SMB_ALERT	GND

FCOM2:

signal	
IPMB_SDA	GND
IPMB_SCL	GND
IPMB_PWR	GND

BACKPLANE TOP VIEW



ORDING INFORMATION:**CONTACT INFORMATION:**

DINTEK Electronic Ltd.

No.8 Lane 97, Wu-Ku Industrial District, Hsin Chuang, Taipei Hsien, Taiwan.

Tel: 886-2-22992898

Fax: 886-2-22997770

Email: salesdp1@dintek.com.tw

DINTEK (Shanghai) Electronic Ltd.

Floor 2, No.518 Shenwang Road, Shanghai, China

Post Code: 201108

Tel: 86-21-5442 3668 , 5442 3019

Fax: 86-21-5442 6663

Email: yanwenjun@dintekcn.com.cn; witt@dintekcn.com.cn;

Http: [//www.cpdidintek.com.cn](http://www.cpdidintek.com.cn)