

Power Backplanes 23098-105, -115, -116, -117

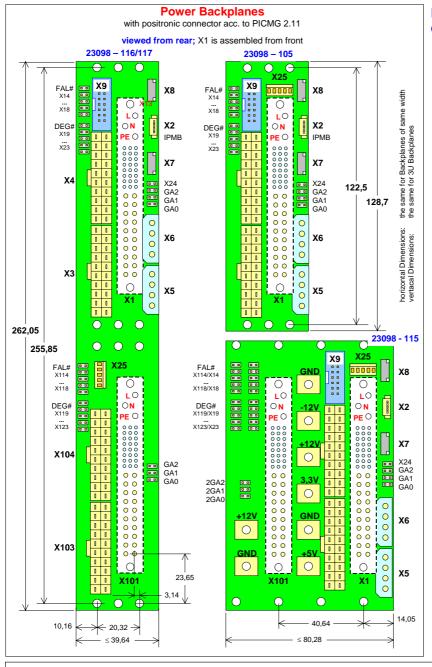
short form Manual (Rev 2.5)

Start-up of the board:

open the cable tie of the power mains cable and push the crimp contacts into the dedicated connector chambers of X1;

respect the cable colours: brown: L (line); blue: N (neutral); green/yellow: PE (protective earth).

Cable length: 500mm, other end can be fitted with Faston Crimp contacts (included in delivery).



Pin assignment Positronic P47 Power connector (X1)

1	Pin#	Signal Name	Description
2			-
3			V1 Output (+5V)
4 V1 V1 Output (+5V) 5 RTN V1 and V2 Return (GND) 5 RTN V1 and V2 Return (GND) 7 RTN V1 and V2 Return (GND) 8 RTN V1 and V2 Return (GND) 9 RTN V1 and V2 Return (GND) 10 RTN V1 and V2 Return (GND) 11 RTN V1 and V2 Return (GND) 12 RTN V1 and V2 Return (GND) 13 V2 V2 Output (3,3V) 14 V2 V2 Output (3,3V) 15 V2 V2 Output (3,3V) 16 V2 V2 Output (3,3V) 17 V2 V2 Output (3,3V) 18 V2 V2 Output (3,3V) 19 RTN V3 Return (GND) 20 V3 V3 Output (+12V) 21 V4 V4 Output (-12V)			V1 Output (+5V)
5 RTN V1 and V2 Return (GND) 5 RTN V1 and V2 Return (GND) 7 RTN V1 and V2 Return (GND) 8 RTN V1 and V2 Return (GND) 9 RTN V1 and V2 Return (GND) 10 RTN V1 and V2 Return (GND) 11 RTN V1 and V2 Return (GND) 12 RTN V1 and V2 Return (GND) 13 V2 V2 Output (3,3V) 14 V2 V2 Output (3,3V) 15 V2 V2 Output (3,3V) 16 V2 V2 Output (3,3V) 17 V2 V2 Output (3,3V) 18 V2 V2 Output (3,3V) 19 RTN V3 Return (GND) 20 V3 V3 Output (3,3V) 19 RTN V3 Return (GND) 20 V3 V3 Output (3,3V) 19 RTN V3 Return (GND) 20 V3 V3 Output (3,3V) 21 V4 V4 Output (-12V) 22 <td< td=""><td></td><td></td><td></td></td<>			
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43 IPMB_PWR System Management Bus 44 V3 SHARE V3 Current Share 45 CGND Chassis Ground (safety ground) 46 ACN/+DC IN AC Input – Neutral; +DC Input 47 ACL/-DC IN AC Input – Line;			V2 Current Share
44 V3 SHARE V3 Current Share 45 CGND Chassis Ground (safety ground) 46 ACN/+DC IN AC Input – Neutral; +DC Input 47 ACL/-DC IN AC Input – Line;			Fail Signal
45 CGND Chassis Ground (safety ground) 46 ACN/+DC IN AC Input – Neutral; +DC Input 47 ACL/-DC IN AC Input – Line;			System Management Bus
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46 ACN/+DC IN AC Input – Neutral; +DC Input 47 ACL/-DC IN AC Input – Line;	45	CGND	
+DC Input 47 ACL/-DC IN AC Input – Line;			(safety ground)
	46	ACN/+DC IN	AC Input – Neutral;
			+DC Input
I I-DC Input	47	ACL/-DC	
100 mpa.			-DC Input

	Utility / SENSE Connector pinout (X7, X8)					
	^ 占		۸	В	Sense	
1 1			А	D	Ding referred to veltages (EV) 2.2V/	
6	00	6	nc	INH#	Pins referred to voltages +5V; 3,3V; +12V and GND of these connector	
5	00	5	nc	-12V	used for sense purposes. They	
4	00	4	+12V	3,3V	should be connected to the	
3	00	3	GND	+5V	backplane. The -12V pin is	
2	00	2	DEG#	FAL#	connected to the –12V power rail.	
1	00	1	nc	nc	Some Power Supplies need at lea a connection between GND Sen	
					a connection between GND_Sense	

Some Power Supplies need at least a connection between GND_Sense and GND, otherwise the outputs overrun

Signal driven by intelligent PSU's, FAL#: at least one output has failed (is out of range)

Signal driven by intelligent PSU's, DEG#: PSU indicates that the supply is beginning to derate its power output

INH#: Signal to turn the PSU outputs "on/off" "open" or "HIGH": "LOW":

cable assy (350mm): Schroff part#: 23204 - 115 cable assy (600mm): Schroff part#: 23204 - 116 "on"

"off"



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short form Manual (Rev 2.5)

ATX Power Connector (X3, X4)

3,3V	11	1	3,3V
- 12V	12	2	3,3V
GND	13	3	GND
INH#	14	4	+5V
GND	15	5	GND
GND	16	6	+5V
GND	17	7	GND
nc	18	8	FAL#
+5V	19	9	nc
+5V	20	10	+12V

pinout: top view on connector

free connector: Molex # 39-01-2205 crimp terminal: Molex # 39-00-0039

(AWG 18-24, Bag)

CPCI Signal INH# uses a pin defined within the ATX spec as PS-ON;

both (INH#, PS-ON) used to drive the PSU ON/OFF:

Logic Level is reversed; to drive PSU on, drive INH#: HIGH (PCMG 2.11 PSU's)

PS-ON: LOW (ATX PSU's)

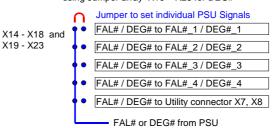
Pin Assignment X9

1	FAL#_1	FAL#_2	2
3	FAL#_3	FAL#_4	4
5	DEG#_1	DEG#_2	6
7	DEG#_3	DEG#_4	8
9	+3,3V share	+5V share	10
11	+12V share	GND	12
13	nc	nc	14

- Part type: header with or w/o housing and latches, grid: 100mil recommendation for mating connector: any IDC connector for ribbon cable of a pitch of 50 mil (acc. to DIN 41651)
- FAL#_n, DEG#_n: n is the number of an individual PSU
- To set the PSU signal FAL# or respectively DEG# to an individual line use jumper according the schematic given in Figure 3.

Setting individual FAL# & DEG# Signal

using Jumper array X14 - X18 for FAL# using Jumper array X19 - X23 for DEG#



Disk Drive Power Connector (X5, X6)

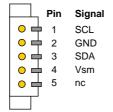
top view on connector



board connector: Molex # 15-24-4049 free connector: Molex # 15-24-3053 (IDC, AWG 16)

IPMB Connector (X2)

top view on connector



cable 750mm: Schroff#: 23204 - 113 free connector: Molex # 51021-0500 crimp contact: Molex # 50079-8100

Remote Connector (X25)

top view on connector

	_ Pin	Signal
	5	INH#
	4	GND
	3	+5V Sense
	2	3,3V Sense
	1	Sense Return (GND)
	_	

cable 750mm: Schroff#: 23204 - 114 free connector: Tyco# 643814-5

Sense Option

Sensing can be accomplished by three different options:

- 1. using the **Utility/Sense** connector; all voltages are sensed (X7/8)
- using the Inhibit/Sense connector:
 the main voltages (+5V, 3,3V GND)
 can connected to backplanes not
 assembled with the Utility connector
 by easy wiring (X25)
- only GND-Sense is connected to GND at the Power Board for minimum requirements of some PSU'S (Jumper X24)

GND-Sense Jumper (X24)

some PSU's may require at least that Sense return (GND Sense) is connected to GND to avoid output voltages out of range. For easy implementation X24 can be shorted to connect GND Sense to GND of the power board

Part Numbers

23098-105 1 Slot, 3U Board 23098-115 2 Slot, 3U Board

23098-116 1 Slot, 6U Board 1 PSU connector for one 6U PSU'

23098-117 1 Slot, 6U Board 2 PSU connectors

2 PSU connectors for two 3U PSU's