PCI-953 Single Board Computer

PN 932-0024-00-A

Quick Reference

Thank you for purchasing your new single board computer from Kontron.

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Introduction

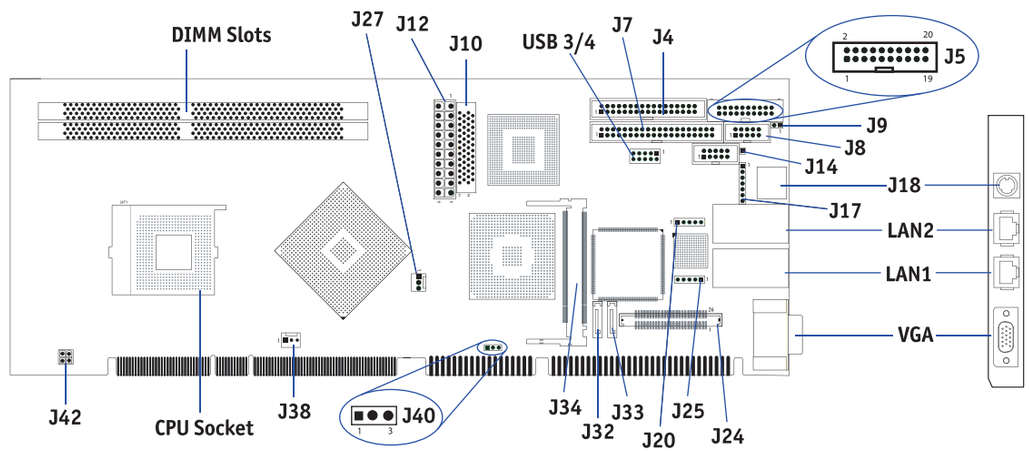
This quick reference card provides connector and jumper locations, connector pin assignments, and a board diagram to help you get your system up and running quickly. To setup your SBC, follow these steps:

1. Carefully remove your SBC from the packaging and set it on an ESD-protected work area.
2. After installing processors and memory, install the board into a chassis with a PICMG 1.0-compatible backplane.
3. Connect the power and HDD LEDs, the power on and reset switches, and speaker to the System Interface connector (J5).
4. Connect all other devices (IDE, USB, LAN, etc.).
5. Connect power from the power supply to the ATX power input connector (J12) and ATX 12V power input connector (J42).

Connectors

Connector	Description
J4	Floppy Connector
J5	System Interface
J7	Primary IDE Connector
J8	COM1
J9	LAN Activity Header
J10	LCD Panel Header
J12	ATX Power Input
J14	COM2
J17	PS/2 Alternate Header
J18	PS/2 Keyboard/Mouse Combo
J20	USB1 Header
J24	MiniPCI Socket
J25	USB2 Header
J27/J38	CPU/CHassis Fans
USB3/4	Dual USB Header
J32/J33	Serial ATA Connectors
J34	CompactFlash
J40	Clear CMOS Header
J42	ATX 12V Power Input

PCI-953 Diagram



Connector Pin Assignments

System Interface Connector (J5)

Pin	Description	Pin	Description
1	Speaker	2	+5V
3	I2C Data (5V)	4	I2C CLK (5V)
5	NC	6	NC
7	NC	8	GND
9	Intruder#	10	GND
11	PME#	12	GND
13	PWRBTN#	14	GND
15	RESET#	16	GND
17	PWR_LED	18	GND
19	HDD_ACT_LED#	20	Pull-up

Clear CMOS (J40)

Pin	Description
1-2	Normal
2-3	Clear CMOS

USB3/USB4

Pin	Description	Pin	Description
1	VCC	2	SHIELD
3	DATA[0]-	4	GND
5	DATA[0]+	6	DATA[1]+
7	GND	8	DATA[1]-
9	SHIELD	10	VCC

COM1/COM2 (J8/J14)

Pin	Description	Pin	Description
1	DCD	2	DRS
3	RXD	4	RTS
5	TXD	6	CTS
7	DTR	8	RI
9	GND	10	NC

PS/2 Alternate (J17)

Pin	Description
1	Keyboard Clock
2	GND
3	Keyboard Data
4	+5V (fused)
5	KEY
6	Mouse Clock
7	Mouse Data

USB1/USB2 (J20/J25)

Pin	Description
1	VCC
2	DATA-
3	DATA+
4	GND
5	SHIELD