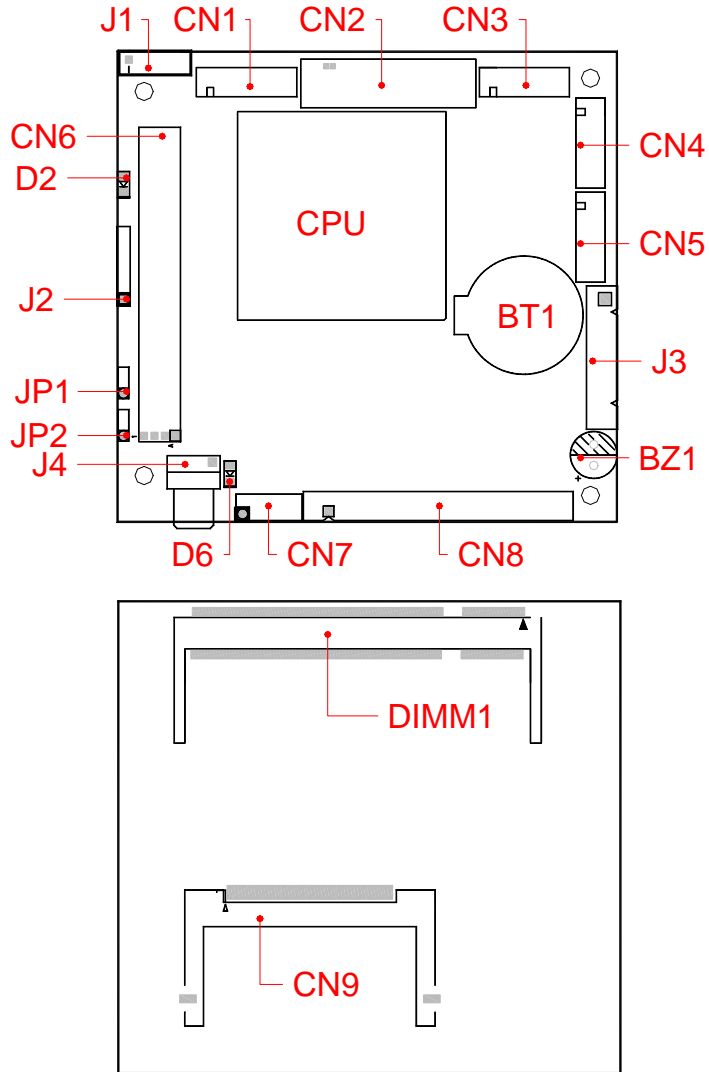


1. Brief

The FB2616 series is a Low power AMD LX, all in one, PCI/104 CPU board. This user's quick setting provides the jumper and switch settings, connector location, and their pin assignment.

2. Board Placement



3. Packing List

- 1 FB2616x all-in-one PCI/104 CPU board.
- 1 VGA (CRT interface) adapter cable.
- 1 44-pin hard disk drive interface cable.
- 2 serial port adapter cables.
- 1 PS/2 keyboard and mouse port adapter cable.
- 1 USB cable, 1 Audio cable, and 1 FB4641x Audio adapter board. (All are optional items)
- 1 10-pin LAN adapter cable with FB4605A transfer board.
- 1 compact disc includes software utilities and manuals.

4. Features

- * On-board AMD LX-800 low power CPU with fanless operation
- * AMD Geode CS5536 chipset with UMA architecture.
- * Support PCI/104 extension bus. (PCI only, w/o ISA)
- * 1 So-DIMM socket for up to 1GB DDR-333/400 RAM modules.
- * One 10/100 base-TX Ethernet port.
- * Supports CRT and LCD interface with up to 254MB shared memory.
- * Provides AC97 Audio function and software programmable watchdog timer.
- * 2 RS-232, 2 USB (V2.0), 1 PCI IDE and 1 CompactFlash socket.
- * PS/2 compatible keyboard and mouse interface.
- * Flash BIOS with easy upgrade utility.
- * Power requires +5V only, 1.3A maximum.
- * PC/104 form factor, 90.2 mm x 95.9 mm (3.55" x 3.775")

5. Connectors and Jumpers List

Name	Function	Name	Function
CN1	AC97 Audio Connector (12-pin IDC)	J1	KB/MS Connector (6-pin JST)
CN2	LCD Connector (40-pin DF-13)	J2	Integrated LED and Reset Header (J1*6)
CN3	CRT Connector (10-pin IDC)	J3	LAN Connector (10-pin JST)
CN4	COM2 Connector (10-pin IDC)	J4	Power Connector (4-pin)
CN5	COM1 Connector (10-pin IDC)		
CN6	PCI/104 Extension BUS (30*4 pin)	JP1	CF Master/Slave Select (J1*3)
CN7	USB #1 & #2 Connector (J2*5)	JP2	Clear CMOS data Jumper (J1*3)
CN8	44-pin IDE Connector (44-pin IDC)		
CN9	CompactFlash Socket (50-pin)	BZ1	On-Board Buzzer
		D2	On-Board Power LED (Green)
DIMM1	DDR RAM Socket	D6	Reserved

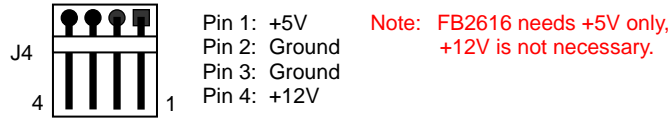
6. Connectors and Their Relative Jumpers

A. IDE Hard Disk Connector and Access LED Header (CN8)

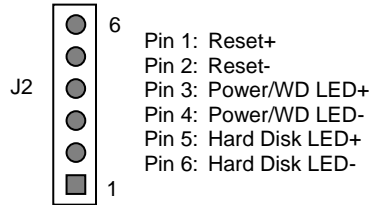
Use included 44-pin hard disk cable you can attach up to two 2.5" hard disk drives.

B. Power Connector and Power/Watchdog LED (J4 and D2)

D2 is used to indicate as powered-on when it lighted, and watchdog is enabled when it is blinking. The watchdog will be disabled and D2 will always lighted after system reset.

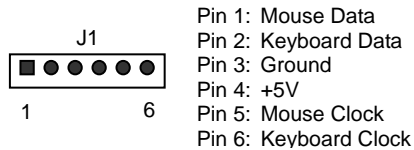


C. Integrated LED and Reset Header (J2)



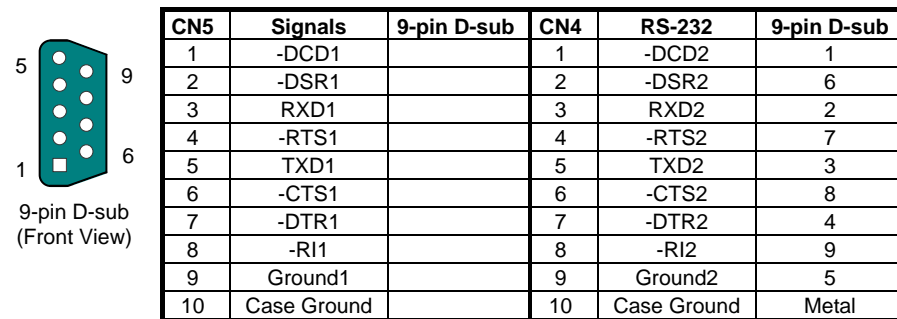
D. Keyboard and Mouse Connector (J1)

J1 provides PS/2 keyboard and mouse interface, use the included adapter cable to connect between J1 and standard PS/2 devices.



E. Serial Port Connectors (CN5 and CN4)

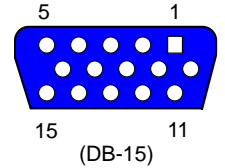
Use the included serial adapter cables for transferring to standard RS-232 connector (9-pin D-sub).



F. CRT Connector (CN3)

The following table and figure illustrate the pin definition of CN4 and D-sub 15-pin on the CRT adapter cable:

CN3	Signal	DB-15	CN3	Signal	DB-15
1	RED	1	2	Case Ground	Case
3	GREEN	2	4	Digital Ground	5,10
5	BLUE	3	6	Analog Ground	6,7,8
7	VSYNC	14	8	DDC Data	12
9	HSYNC	13	10	DDC Clock	15



G. LCD Connector (CN2: 40-pin DF13)

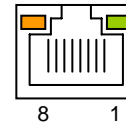
CN2 is a 24-bit TTL LCD interface connector for widely LCD panel applications.

CN2	Signal	CN2	Signal	CN2	Signal	CN2	Signal
1	+5V	21	FP12	2	+5V	22	FP13
3	Ground	23	FP14	4	Ground	24	FP15
5	+3.3V	25	FP16	6	+3.3V	26	FP17
7	N.C.	27	FP18	8	Ground	28	FP19
9	FP0	29	FP20	10	FP1	30	FP21
11	FP2	31	FP22	12	FP3	32	FP23
13	FP4	33	Ground	14	FP5	34	Ground
15	FP6	35	FPCLK	16	FP7	36	FPVS
17	FP8	37	FPDE	18	FP9	38	FPHS
19	FP10	39	ENAVDD	20	FP11	40	ENAVEE

Note: If any trouble when connecting FB2616x with LCD panels, you could contact technical support division of FabiaTech Corporation.

H. LAN Connector and LED Indicators (J3: 10-pin 2.54mm Header)

J3 provides twist-pair signals of LAN port. Use the included adapter board (FB4605A) with cable to transfer to standard RJ45 connector. The left side LED (orange) indicates data is accessing and the right side LED (green) indicates on-line status. (When lighted indicates on-line and off indicates off-line). The following figure and table list the pin assignment of RJ45 connector on the FB4605A LAN adapter board:

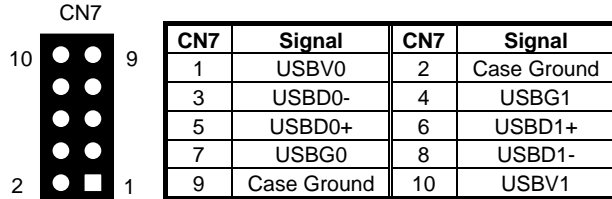


RJ45 connector on FB4605A adapter board (Front View)

FB4605A	Signal	FB4605A	Signal
1	TPTX2+	5	FBG12
2	TPTX2-	6	TPRX2-
3	TPRX2+	7	FBG22
4	FBG12	8	FBG22

I. USB and Audio Connectors (CN7 and CN1), and Connectors on FB4641x Adapter Board

CN7 supports 2 port USB signals and CN1 provides AC97 signals for Audio function. Use the FB4641x (USB and Audio Adapter Board) and cables for your USB and Audio applications.



CN1	Signal	CN1	Signal
1	AC97_CLK	2	N. C.
3	+5V	4	AC97_SYNC
5	Ground	6	Ground
7	+3.3V	8	AC97_RST#
9	AC97_SDO	10	N. C.
11	AC97_SDI0	12	N. C.

Audio connectors on the FB4641x adapter board



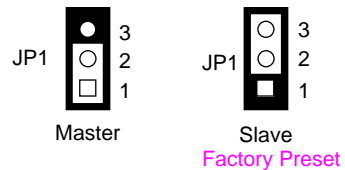
Note that the FB4641x and cables are optional items.

J. SoDIMM Socket (DIMM1)

DIMM1 (Located on the solder side) supports 200-pin, 2.5V, and DDR-333/400 DRAM modules with size of 128MB, 256MB, 512MB, and 1GB.

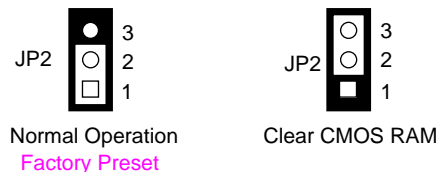
K. CompactFlash Socket and Master/Slave Select (CN9 and JP1)

The CompactFlash socket CN9 (on the solder side) supports 3.3V CompactFlash and MicroDrives. JP1 is used to select master/slave device of this CompactFlash socket.



Caution: Be sure to avoid the same master/slave setting with which connects to IDE (CN8) connector, if you use CN8 and CN9 simultaneously

L. CMOS RAM Select Jumper (JP2)



M. PCI/104 Connectors (CN6: 30*4-pin)

CN6	Signal	CN6	Signal	CN6	Signal	CN6	Signal
A1	N.C. (5VKEY)	B1	Reserved	C1	+5V	D1	AD0
A2	N.C. (VI/O)	B2	AD2	C2	AD1	D2	+5V
A3	AD5	B3	Ground	C3	AD4	D3	AD3
A4	C/BE#0	B4	AD7	C4	Ground	D4	AD6
A5	Ground	B5	AD9	C5	AD8	D5	Ground
A6	AD11	B6	N.C. (VI/O)	C6	AD10	D6	M66EN
A7	AD14	B7	AD13	C7	Ground	D7	AD12
A8	+3.3V	B8	C/BE#1	C8	AD15	D8	+3.3V
A9	SERR#	B9	Ground	C9	N.C. (SB0#)	D9	PAR
A10	Ground	B10	PERR#	C10	+3.3V	D10	SDONE
A11	STOP#	B11	+3.3V	C11	LOCK#	D11	Ground
A12	+3.3V	B12	TRDY#	C12	Ground	D12	DEVSEL#
A13	FRAME#	B13	Ground	C13	IRDY#	D13	+3.3V
A14	Ground	B14	AD16	C14	+3.3V	D14	C/BE#2
A15	AD18	B15	+3.3V	C15	AD17	D15	Ground
A16	AD21	B16	AD20	C16	Ground	D16	AD19
A17	+3.3V	B17	AD23	C17	AD22	D17	+3.3V
A18	IDSEL0	B18	Ground	C18	IDSEL1	D18	IDSEL2
A19	AD24	B19	C/BE#3	C19	N.C. (VI/O)	D19	IDSEL3
A20	Ground	B20	AD26	C20	AD25	D20	Ground
A21	AD29	B21	+5V	C21	AD28	D21	AD27
A22	+5V	B22	AD30	C22	Ground	D22	AD31
A23	REQ#0	B23	Ground	C23	REQ#1	D23	N.C. (VI/O)
A24	Ground	B24	REQ#2	C24	+5V	D24	GNT#0
A25	GNT#1	B25	N.C. (VI/O)	C25	GNT#2	D25	Ground
A26	+5V	B26	PCICLK0	C26	Ground	D26	PCICLK1
A27	PCICLK2	B27	+5V	C27	PCICLK3	D27	Ground
A28	Ground	B28	INTD#	C28	+5V	D28	RESET#
A29	N.C. (+12V)	B29	INTA#	C29	INTB#	D29	INTC#
A30	N.C. (-12V)	B30	Reserved	C30	Reserved	D30	N.C. (3VKEY)

End of Document