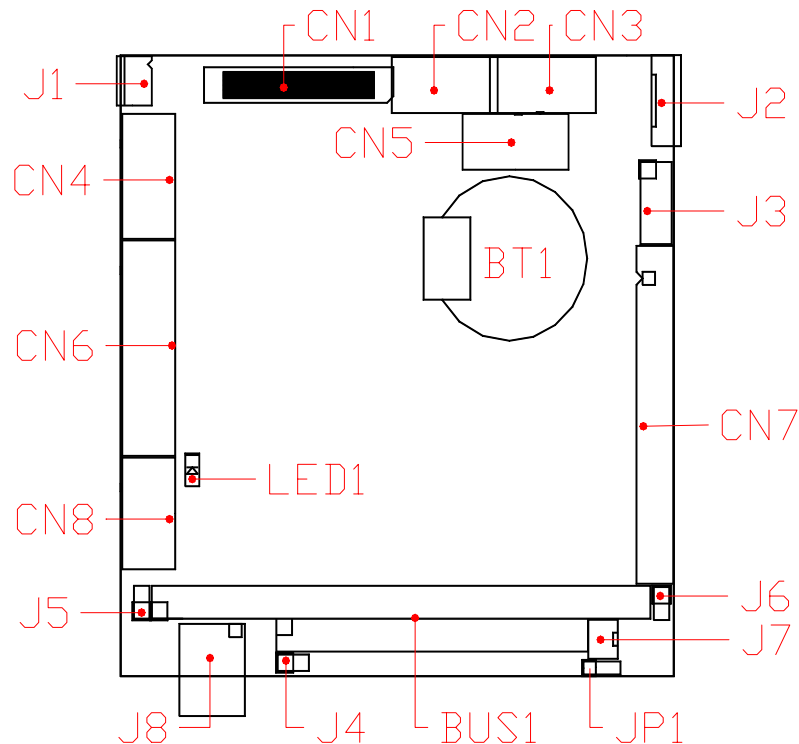


## 1. Brief

The FB2610 is an all-in-one, PC/104, low power VIA Eden CPU module. This user's quick setting provides the jumper settings, connector location, and their pin assignment.

## 2. Board Placement



## 3. Packing List

- 1 FB2610x all-in-one PC/104 CPU board.
- 1 VGA (CRT interface) adapter cable.
- 1 44-pin hard disk drive interface cable.
- 2 serial port adapter cable and 1 parallel port interface cable.
- 1 PS/2 keyboard and mouse port adapter cable.
- 1 USB cable, 1 Audio cable, and 1 FB4641 Audio/USB adapter board.
- 1 10-pin LAN adapter cable with FB4605A transfer board.
- 1 compact disc includes software utility.
- 1 hard copies of this quick setup manual.

## 4. Features

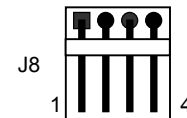
- \* On-board 300~733 MHz VIA Eden CPU. (400MHz for standard)
- \* VT8601T chipset with UMA architecture.
- \* 1 So-DIMM socket for up to 512MB PC-133 SDRAM.
- \* One 100/10 base-T Ethernet port.
- \* VT8601T: Provides CRT with 2MB to 8MB shared memory.
- \* 1 parallel port, 2 RS-232, 2 USB, and 1 PCI IDE interface.
- \* PS/2 compatible keyboard and mouse interface.
- \* Provides header for external speaker and hard disk access LED.
- \* Flash BIOS with easy upgrade utility.
- \* Power requires +5V only, 2.2A maximum.
- \* PC/104 form factor, 90.2 mm x 95.9 mm (3.55" x 3.775")

## 5. Connectors, Headers and Their Relative Jumpers

### A. Reset Header (J4)

J4 is a 2-pin header for connecting to system reset bottom. Close these 2 pins to hardware reset FB2610 and restart system booting.

### B. Power Connector (J8: 4-pin 2.5mm JST)

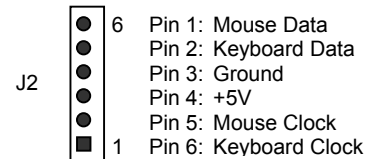


- Pin 1: +12V
- Pin 2: Ground
- Pin 3: Ground
- Pin 4: +5V

Note: FB2610 needs +5V only, +12V is not necessary.

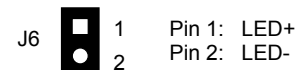
### C. Keyboard and Mouse Connector (J2)

J2 provides PS/2 keyboard and mouse interface, use the included adapter cable to connect between J2 and standard PS/2 device.



### D. IDE Hard Disk Connector and Access LED Header (CN7 and J6)

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



**E. Parallel Port Connector (CN6: 26-pin 2.0mm IDC)**

The included printer interface cable is used to transfer 26-pin connector into standard DB-25 connector.

**F. Serial Port Connectors (CN3 & CN2)**

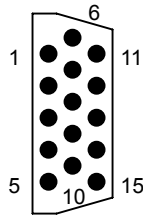
The included serial port cables are use to transfer CN3 and CN2 to 9-pin D-type male connector. The following table shows the pin definitions of CN3, CN2, and 9-pin D-sub connectors:

CN3	Signal	DB-9	Signal	CN2
1	-DCD1	1	-DCD2	1
2	-DSR1	6	-DSR2	2
3	RXD1	2	RXD2	3
4	-RTS1	7	-RTS2	4
5	TXD1	3	TXD2	5
6	-CTS1	8	-CTS2	6
7	-DTR1	4	-DTR2	7
8	-RI1	9	-RI2	8
9	Ground1	5	Ground2	9
10	Case Ground	Metal	Case Ground	10

**G. CRT Connector (CN5)**

The following table and figure illustrate the pin definition of CN5 and D-sub 15-pin on the CRT adapter cable:

CN5	Signal	DB-15	CN5	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



DB-15 (Front View)

- Pin 1: Red
- Pin 2: Green
- Pin 3: Blue
- Pin 13: Hsync
- Pin 14: Vsync
- Pin 12: DDC Data
- Pin 15: DDC Clock
- Pin 5 & 10: Digital Ground
- Pin 6,7,8: Analog Ground
- Others: Not Used

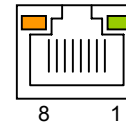
**H. SoDIMM Socket (DIMM1)**

DIMM1 supports 144-pin, 3.3V, and PC-133 SDRAM with size of 32MB, 64MB, 128MB, 256MB,

and 512MB.

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

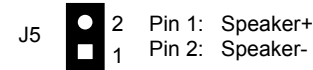
J3 provides twist-pair signals of LAN port. Use the included adapter board (FB4605A) with cable to transfer to standard RJ45 connector. The left side LED (orange) indicates data is accessing and the right side LED (green) indicates on-line status. (When lighted indicates on-line and off indicates off-line).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

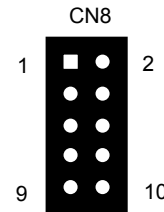
FB4605A	Signal	FB4605A	Signal
1	TPTX2+	5	FBG12
2	TPTX2-	6	TPRX2-
3	TPRX2+	7	FBG22
4	FBG12	8	FBG22

**J. External Speaker Header (J5)**



**K. USB Connector (CN8)**

Use the USB adapter cable and FB4641 board, you can attach up to 2 USB devices.



- Pin 1: USBV0
- Pin 2: Case Ground
- Pin 3: USBD0-
- Pin 4: USBG1
- Pin 5: USBD0+
- Pin 6: USBD1+
- Pin 7: USBG0
- Pin 8: USBD1-
- Pin 9: Case Ground
- Pin 10: USBV1

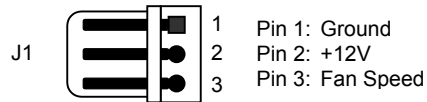
**L. AC97 Audio I/O Connector (CN4)**

CN4 is a 12-pin 2.0mm IDC connector with AC97 signals for Audio I/O. Use the included Audio cable and FB4641 adapter board for your Audio applications. The J3, J4, and J5 connectors on FB4641 are 2-way Line-In, mono Microphone input, and 2-way Line-Out respectively. The following figure shows these Audio connectors on FB4641 board:



### M. Cooling Fan Connector (J1)

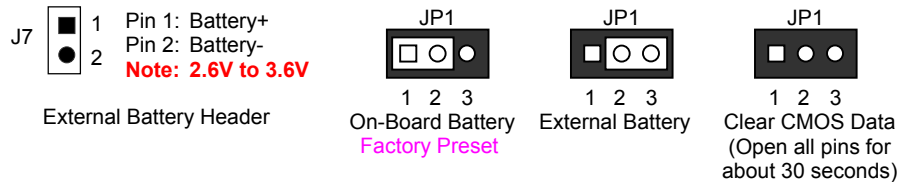
J1 is 3-pin Molex connector, which is use to drive CPU cooling fan if Non-Low-Power CPUs are used.



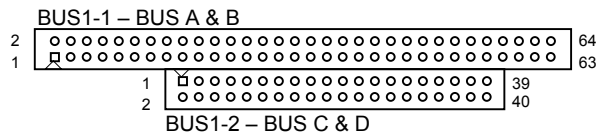
Note: It needs to have +12V inputs from J8 power connector if this fan connector is

### N. External Battery Header and Battery Select Jumper (J7 & JP1)

J6 is used to connect an external battery pack if on-board Lithium battery is empty, and please setting JP1 properly of on-board battery or external battery.



### O. PC/104 Connectors (BUS1: 64-pin IDC & 40-pin IDC)



### P. Power/Watchdog LED (LED1)

LED1 is used to indicate as powered-on when it lighted, and watchdog is enabled when it is blinking. The watchdog will be disabled and LED1 will always lighted after system reset.