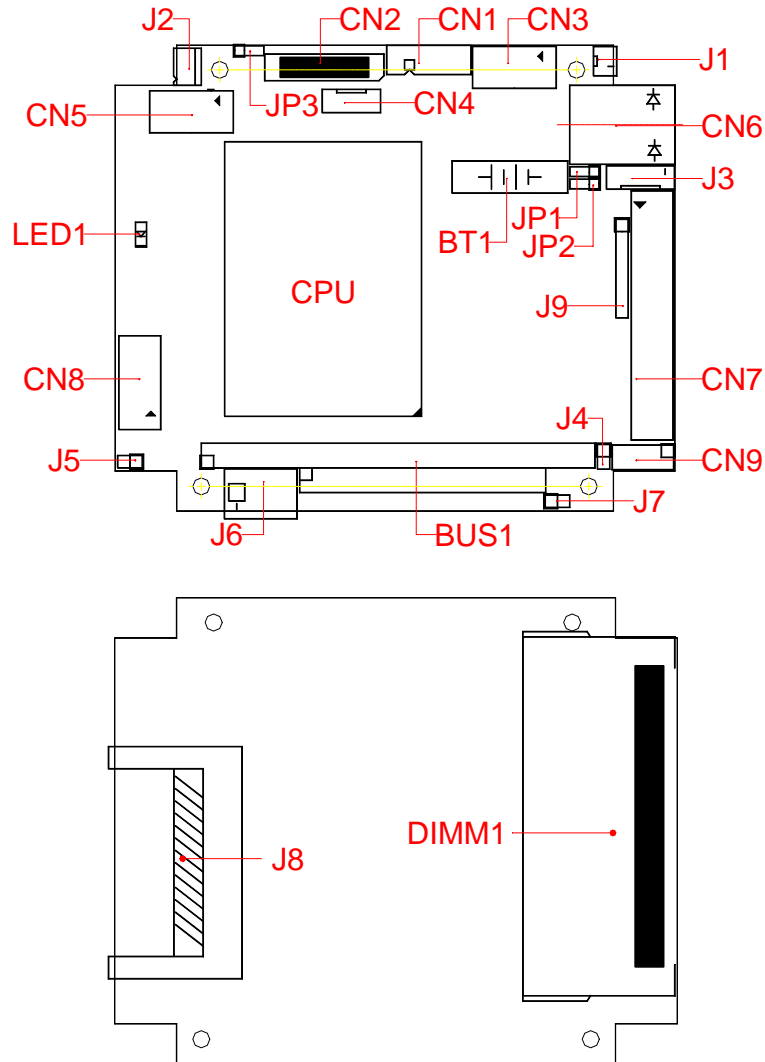


Brief

The FB2611 is an all-in-one, PC/104, VIA MARK CoreFusion™ CPU module. This user's quick setting provides the jumper settings, connector location, and their pin assignment.

1. Board Placement**2. Packing List**

- 1 FB2611x 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
- 1 PS/2 keyboard and mouse port adapter cable.
- 1 USB cable, 1 Audio cable, and 1 FB4641 Audio/USB adapter board.
- 1 compact disc includes software utility.

3. Features

- * On-board 533/800 MHz VIA MARK CoreFusion™ CPU. (800MHz is the standard)
- * VIA MARK CoreFusion™+VT82C686B chipset.
- * 1 So-DIMM socket for up to 512MB PC-133 SDRAM.
- * One 10/100 base-T Ethernet port.
- * Supports CRT and LVDS interface with up to 32MB shared memory.
- * 1 RS-232, 1 RS-232/485, 2 USB, and 1 PCI IDE interface.
- * CompactFlash socket for 3.3V CompactFlash modules.
- * PS/2 compatible keyboard and mouse interface.
- * Provides header for external speaker and hard disk access LED.
- * Provides 1 CPU cooling fan connector for monitoring.
- * Provides AC97 Audio functions.
- * Flash BIOS with easy upgrade utility.
- * Power requires +5V only, 2.6A maximum.
- * PC/104 form factor, 95.9 mm x 115.6 mm (3.775" x 4.55")

4. Connectors, Headers, and Jumpers List

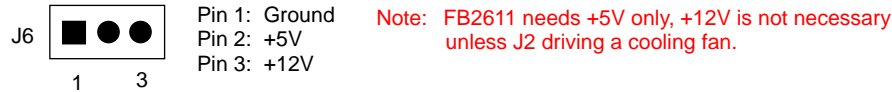
Name	Function	Name	Function
CN1	CRT Connector (10-pin IDC)	J1	External Battery Connector (2-pin JST)
CN2	LVDS Connector (30-pin DF-13)	J2	Cooling Fan Connector (3-pin)
CN3	COM1 Connector (10-pin IDC)	J3	KB. and Mouse Connector (6-pin JST)
CN4	Power Connector for LCD (5-pin JST)	J4	External Speaker Header (J1*2)
CN5	COM2 Connector (10-pin IDC)	J5	Reset Header (J1*2)
CN6	LAN Connector (RJ45 with LEDs)	J6	Power Connector (3-pin)
CN7	IDE Connector (44-pin IDC)	J7	External HDD LED Header (J1*2)
CN8	AC97 Audio Connector (12-pin IDC)	J8	CompactFlash Socket (50-pin)
CN9	USB Connector (10-pin Header)	J9	Reserved Header (J1*8)
BUS1	PC/104 Connector (64 and 40 pin)	JP1	Battery Select Jumper (J1*3)
DIMM1	SoDIMM Socket (144-pin)	JP2	CF Master/Slave Select Jumper (J1*3)
LED1	On-Board Power LED Indicator	JP3	RS485 Terminator Select Jumper (J1*3)

5. Connectors, Headers and Their Relative Jumpers

A. Reset Header (J5)

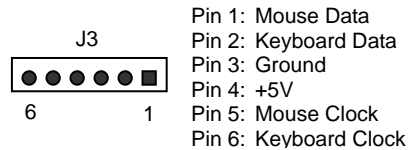
J5 is a 2-pin header for connecting to system reset bottom. Close these 2 pins to hardware reset FB2611 and restart system booting.

B. Power Connector (J6: 3-pin 0.2" terminal block)



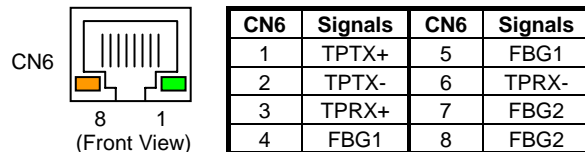
C. Keyboard and Mouse Connector (J3)

J3 provides PS/2 keyboard and mouse interface, use the included adapter cable to connect between J3 and standard PS/2 devices.



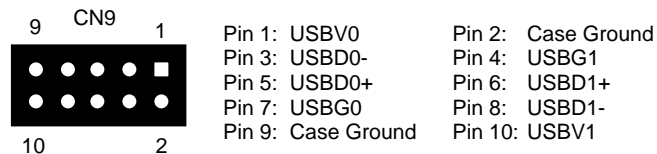
D. LAN Connector and LED Indicators (CN6: RJ45)

CN6 is a standard RJ45 connector with 2 LEDs. 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 lists the pin assignment of CN6:



E. USB Connector (CN9)

Use the USB adapter cable and FB4641x board, you can attach up to 2 USB devices.

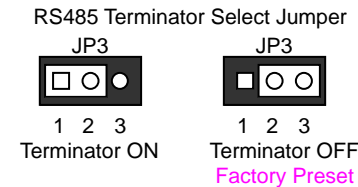


F. Serial Port Connectors and Select Jumper (CN3, CN5 and JP3)

The included serial port cables are used to transfer CN3 and CN5 to 9-pin D-type male connector. The following table shows the pin definitions of CN3, CN5, and 9-pin D-sub connectors:

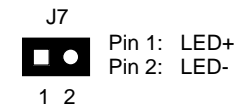
CN3	RS232	9-pin D-Sub	RS232	RS485	CN5
1	-DCD1	1	-DCD2		1
2	-DSR1	6	-DSR2		2
3	RXD1	2	RXD2	485-	3
4	-RTS1	7	-RTS2		4
5	TXD1	3	TXD2	485+	5
6	-CTS1	8	-CTS2		6
7	-DTR1	4	-DTR2		7
8	-RI1	9	-RI2		8
9	Ground1	5	Ground2		9
10	Case Ground	Metal Case	Case Ground		10

Note: RS232/RS485 on CN5 is selectable via BIOS setup program



G. IDE Hard Disk Connector and Access LED Header (CN7 and J7)

Use the included 44-pin hard disk cable, CN7 can attach up to two 2.5" hard disk drives.



H. AC97 Audio I/O Connector (CN8)

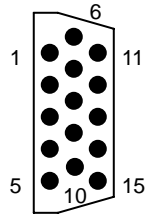
CN8 is a 12-pin 2.0mm IDC connector with AC97 signals for Audio I/O. Use the included Audio cable and FB4641x adapter board for your Audio applications. The J3, J4, and J5 connectors on FB4641x are 2-way Line-In, mono Microphone input, and 2-way Line-Out respectively. The following figure shows these Audio connectors on FB4641x board:



I. CRT and LVDS Connectors (CN1, CN2, and CN4)

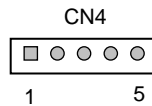
The following table and figure illustrate the pin definition of CN1, CN2, CN4 and D-sub 15-pin on the CRT adapter cable:

CN1	Signal	DB-15	CN1	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)

CN2	Signal	CN2	Signal
1	Ground	2	Y0+
3	Y0-	4	Ground
5	Y1+	6	Y1-
7	Ground	8	Y2+
9	Y2-	10	Ground
11	YCK+	12	YCK-
13	Ground	14	Z0+
15	Z0-	16	Ground
17	Z1+	18	Z1-
19	Ground	20	Z2+
21	Z2-	22	Ground
23	ZCK+	24	ZCK-
25	Ground	26	Ground
27	+3.3V	28	+3.3V
29	+5V	30	+5V

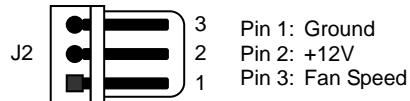


Pin 1: +12V
Pin 2: Ground
Pin 3: ENVDD
Pin 4: N.C.
Pin 5: +5V

Note: If any trouble when connecting FB2611x with LCD panels, you could contact technical support division of FabiaTech Corporation.

J. Cooling Fan Connector (J2)

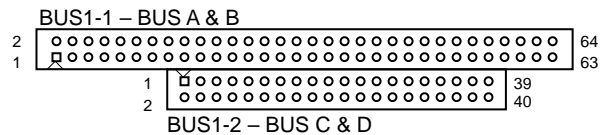
J2 is 3-pin Molex connector, which is use to drive CPU cooling fan if Non-Low-Power CPUs are used.



Pin 1: Ground
Pin 2: +12V
Pin 3: Fan Speed

Note: It needs to have +12V inputs from J6 power connector if this fan connector is used.

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

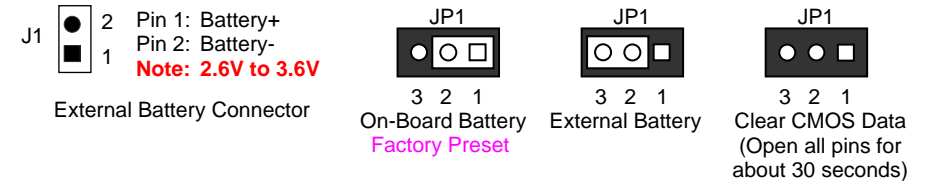


L. SoDIMM Socket (DIMM1)

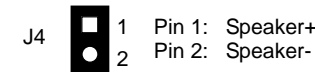
DIMM1 (on the solder side) supports 144-pin, 3.3V, and PC-133 SDRAM with size of 32MB, 64MB, 128MB, 256MB, and 512MB.

M. External Battery Header and Battery Select Jumper (J1 & JP1)

J1 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.

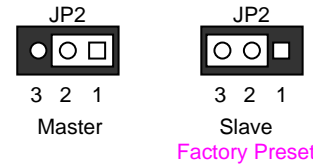


N. External Speaker Header (J4)



O. CompactFlash Socket and Master/Slave Select (J8 and JP2)

The CompactFlash socket J8 (on the solder side) supports 3.3V CompactFlash and MicroDrivers. JP2 is used to select master/slave device of this socket.



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.

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