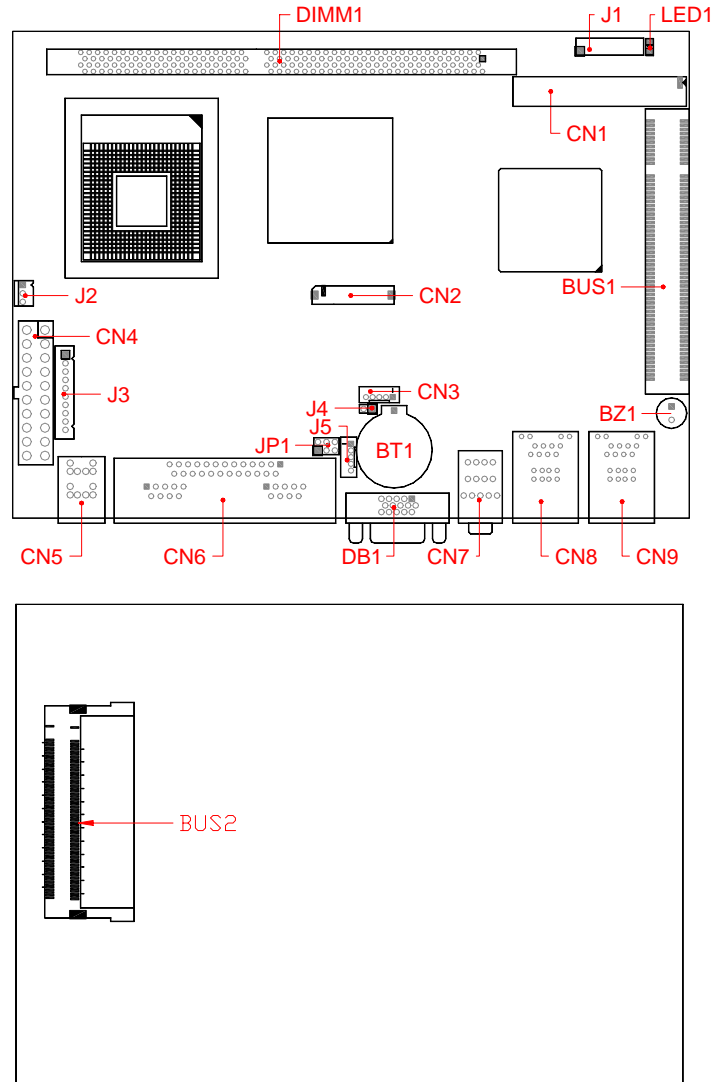


## 1. Brief

The FB2652 series is a Low power Celeron-M or Pentium-M Grade, all in one CPU card. This user's quick setting provides the jumper and switch settings, connector location, and their pin assignment.

## 2. Board Placement



## 3. Packing List

- 1 FB2652x all-in-one CPU board.
- 1 40-pin hard disk drive interface cable.
- 1 compact disc includes software utility.
- 1 hard copies of this quick setup manual.

## 4. Features

- \* On-board low power Intel Celeron-M or Pentium-M CPU with heat sink only. (Fanless operation)
- \* 5.25" (CDROM) size embedded board with PCI expansion bus.
- \* Intel 855GME+ICH4 chipset and 512KB or above L2 cache inside the CPUs.
- \* Provides 1 DIMM-184 socket for up to 1GB DDR-333 SDRAM maximum.
- \* Two 10/100/1000 base-TX Ethernets with RJ-45 connectors.
- \* Onboard VGA (855GME embedded) supports CRT and LVDS with up to 32MB shared memory.
- \* 2 PCI IDE, 1 parallel, 1 RS-232 and 1 RS-232/422/485 ports.
- \* 1 mini-PCI socket for I/O modules, especially for WLAN modules.
- \* On-board buzzer, LED indicator, and PS/2 compatible keyboard and mouse interface.
- \* 4 USB ports, 4 TTL I/O lines, and AC97 Audio function.
- \* Provides 1 CPU cooling fan connector and hardware monitoring functions
- \* Software programmable watchdog timer
- \* Flash BIOS with easy upgrade utility.
- \* 5.25" size, 146 mm x 203 mm.

## 5. Connectors, Headers, and Jumpers List

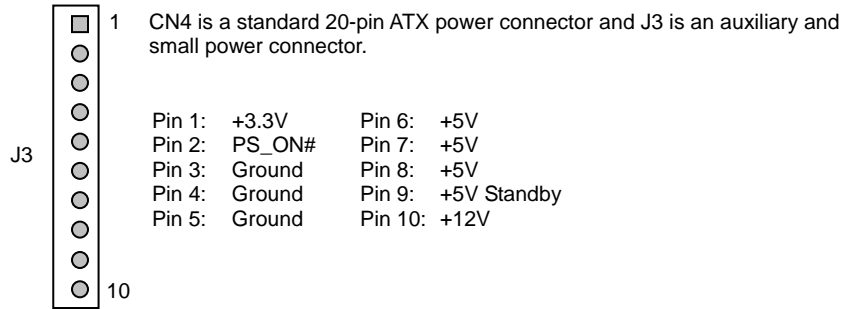
Name	Function	Name	Function
CN1	40-pin IDE Connector	J1	Mixed I/O and Indicator Header (16-pin)
CN2	30-pin LVDS Connector	J2	Cooling Fan Connector (3-pin)
CN3	5-pin Power Connector for LCD	J3	Aux. Power Connector (10-pin)
CN4	20-pin ATX Power Connector	J4	Clear RTC Header (2-pin)
CN5	Keyboard and Mouse Connector	J5	TTL I/O Connector (5-pin)
CN6	Standard 2S1P Connector		
CN7	Audio I/O Connector	BUS1	PCI Connector
CN8	1LAN+2USB Connector #1	BUS2	Mini PCI Socket
CN9	1LAN+2USB Connector #2	DB1	CRT Connector (D-sub 15)
CN10	44-pin IDE Connector	DIMM1	DDR DIMM Socket (184-pin)
		JP1	COM2 Select Jumper (J2x3)
BZ1	On-Board Buzzer	LED1	Power/Watchdog LED

## 6. Connectors and Their Relative Jumpers

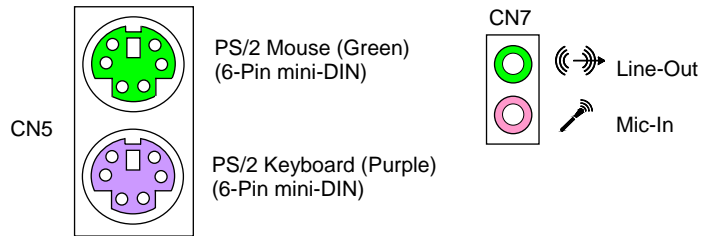
### A. IDE Hard Disk Connectors (CN1 - 40-pin 2.54mm IDC, & CN10 - 44-pin 2.0mm IDC Female)

Use the included 40-pin hard disk cable, you can attach up to two 3.5" hard disk drives. The 44-pin female connector is reserved for FX5612x system's CompactFlash applications.

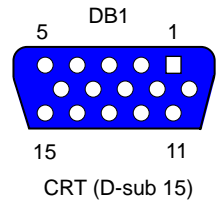
## B. Power Connectors (CN4 and J3: 10-pin JST)



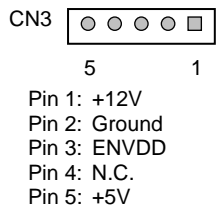
## C. Keyboard, Mouse, and Audio Connectors (CN5 and CN7)



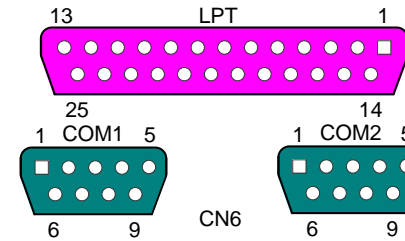
## D. CRT and LVDS Connectors (DB1, CN2, and CN3)



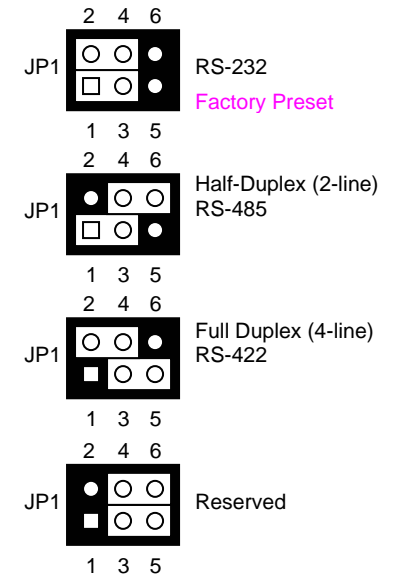
CN2	Signal	CN2	Signal
1	Ground	2	Y0+
3	Y0-	4	Ground
5	Y1+	6	Y1-
7	Ground	8	Y2+
9	Y2-	10	Ground
11	YCK+	12	YCK-
13	Ground	14	Z0+
15	Z0-	16	Ground
17	Z1+	18	Z1-
19	Ground	20	Z2+
21	Z2-	22	Ground
23	ZCK+	24	ZCK-
25	Ground	26	Ground
27	+3.3V	28	+3.3V
29	+5V	30	+5V



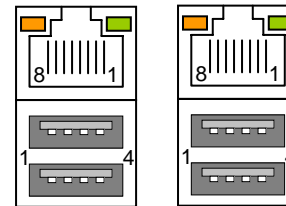
## E. Serial Port and Parallel Port Connectors and COM2 Select Jumper (CN6 and JP1)



D-sub 9	RS-232	RS-422	RS-485
1	-DCD2		-
2	RXD2	RX-	485-
3	TXD2	RX+	485+
4	-DTR2		-
5	Ground2		
6	-DSR2		-
7	-RTS2	TX-	-
8	-CTS2	TX+	-
9	-RI2		-
Metal	Case Ground		

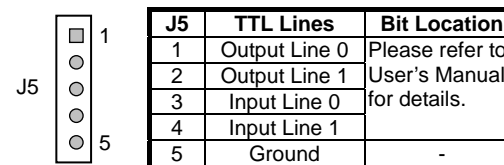


## F. USB and LAN Connectors (CN8 and CN9)



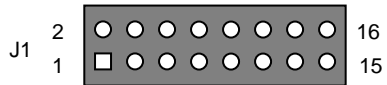
These connectors are all standard LAN and USB connectors. The LAN port is a RJ45 connector with 2 LEDs. The left side LED (orange) indicates data is accessing and the right side LED (green) indicates on-line status. (When lighted indicates on-line and off indicates off-line)

## G. TTL I/O Connector (J5: 5-pin 2.0mm JST)



## H. DDR DIMM Socket (DIMM1)

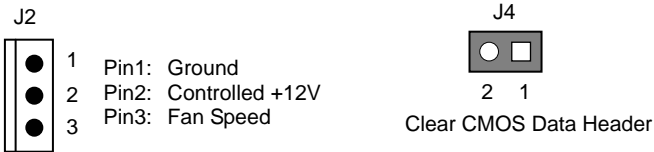
DIMM1 supports 184-pin DDR-333 RAM modules with size of 128MB, 256MB, 512MB, and 1GB.

**I. Mixed I/O and Indicator Header (J1: 2x8 2.54mm header)**

J1	Signal	J1	Signal
1	Power/Watchdog LED+	2	Power/Watchdog LED-
3	HDD LED+	4	HDD LED-
5	LAN #1 LED+	6	LAN #1 LED-
7	LAN #2 LED+	8	LAN #2 LED-
9	User Defined Status LED+	10	User Defined Status LED-
11	Temperature Sensor Input+	12	Temperature Sensor Input-
13	Push Button Reset	14	Ground
15	Soft Start Switch+	16	Soft Start Switch-

**J. Cooling Fan Connector (J2) and Clear CMOS Data (J4)**

J2 is 3-pin Molex connector which is reserved for driving CPU cooling fan. J4 is used to clear CMOS data by closing its 2-pin for about 3 seconds.



For CPU Cooling Fan

**K. Major Extension BUS (BUS2)**

BUS2 is mini-PCI socket for all mini-PCI I/O modules, especially for WLAN applications.

**L. Minor Extension BUS (BUS1)**

BUS1 is designed to be able to plug-in a PCI device card. The factory presetting is suitable for 5V slot cards and 3.3V slot card is optional.

End of Document