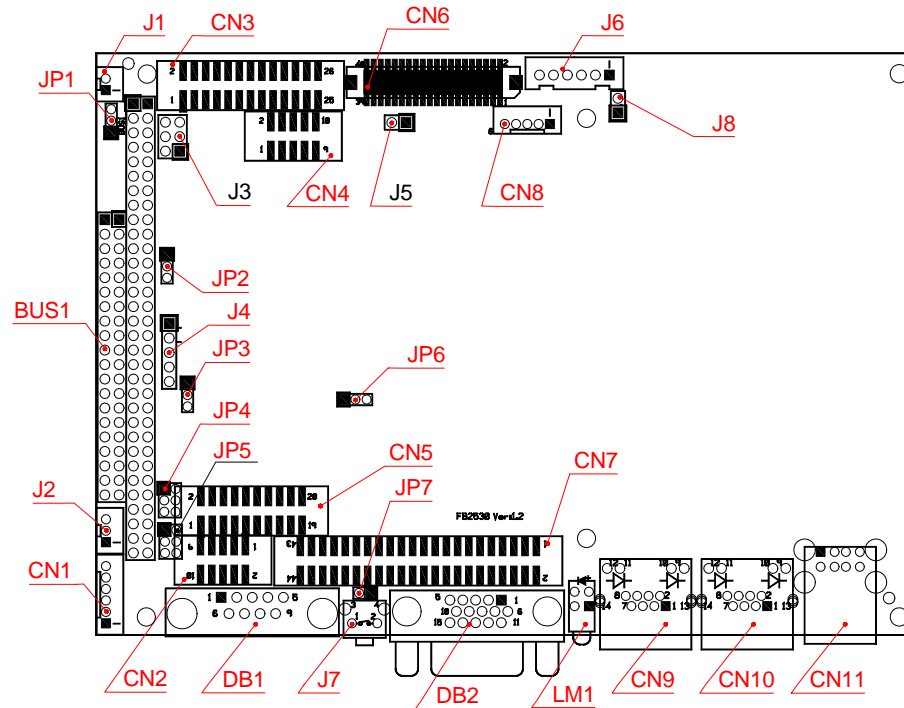


## 1. Brief

The FB2530 is an all-in-one, 3.5" disk size, NS Geode low power CPU board. This user's quick setting provides the jumper settings, connector location, and their pin assignment.

## 2. Board Placement



## 3. Packing List

- 1 FB2530 all-in-one CPU board.
- 1 44-pin hard disk drive interface cable.
- 1 20-pin to 34-pin floppy drive interface cable.
- 1 serial port adapter cable and 1 parallel port interface cable.
- 1 PS/2 keyboard and mouse port adapter cable.
- 1 audio adapter cable with FB4612B transfers board.
- 1 6-pin power adapter cable.
- 1 compact disc includes software utility.
- 1 hard copies of this quick setup manual.

## 4. Features

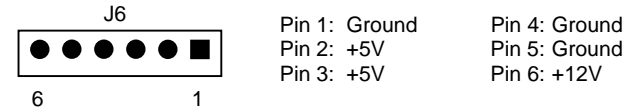
- \* On-board 200~300 MHz NS Geode GX1 CPU.
- \* NS CS5530A chipset with UMA architecture.
- \* 1 So-DIMM socket for up to 128MB PC-100 SDRAM.
- \* One or two 100/10 base-T Ethernet ports.
- \* Provides CRT and LCD with 1.5MB to 4MB shared memory.
- \* 1 parallel port, 1 RS-232, 1 RS-232/485/IrDA.
- \* 1 floppy port and 1 PCI IDE interface.
- \* PS/2 compatible keyboard and mouse interface.
- \* Provides header for external speaker.
- \* Flash BIOS with easy upgrade utility.
- \* AC97 audio function supports Line-In, Line-Out, and Mic-In.
- \* 2 USB ports and software programmable watchdog timer.
- \* 2 TTL input lines and 2 TTL output lines.
- \* Power requires +5V - 1.3A maximum, +12V - 0.1A maximum.
- \* 3.5" disk size, 145 mm x 102 mm (5.7" x 4.0")

## 5. Connectors, Headers and Their Relative Jumpers

### A. Reset Switch (J7)

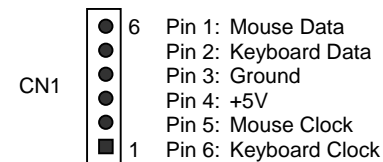
J7 is a push bottom switch for system reset. Push and release the bottom will cause hardware reset of FB2530 and restart system booting.

### B. Power Connector (J6: 6-pin 2.5mm JST)



### C. Keyboard and Mouse Connector (CN1: 6-pin 2.0mm JST)

CN1 provides PS/2 keyboard and mouse interface, use the included adapter cable to connect between CN1 and standard PS/2 devices.



### D. Serial Port Connectors and Jumpers (DB1, CN2, J2, J4, JP3, JP4, JP5, and JP6)

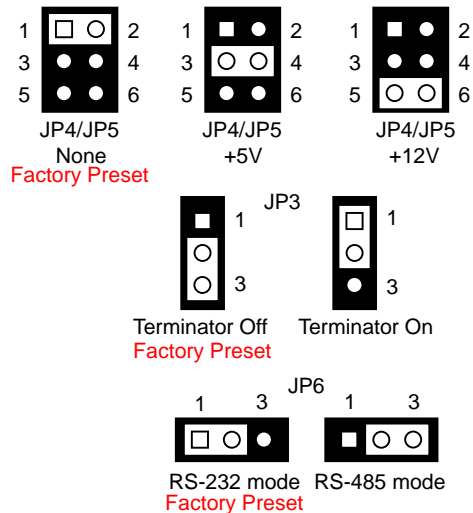
The serial port1 supports RS-232 only and the serial port 2 supports RS-232, RS-485 and InfraRed interface. JP6 is used to select RS-232 or RS-485 of serial port 2 and JP3 provides terminator select of RS-485 mode. Both ports also provide jumper for power output selection.

The following table lists jumpers and connectors of these 2 serial ports.

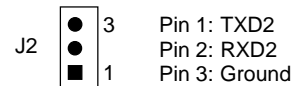
Functional connector, header, and jumper of serial ports	Serial Port 1	Serial Port 2
RS-232 Signal	DB1	CN2
RS-485 Signal	-	CN2
RS-485 Select	-	JP6 & JP3
IrDA Interface	-	J4
Touch Screen Interface	-	J2
Power Output Select	JP4	JP5

The included serial port cables are use to transfer CN2 to 9-pin D-type male connector. The following table and figures show the pin definitions of DB1, CN2, J2, J4, JP3, JP4, JP5 and JP6:

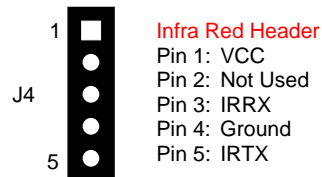
DB1	RS-232	CN2	RS-232	RS-485	9-pin D-sub
1	-DCD1	1	-DCD2	-	1
6	-DSR1	2	-DSR2	-	6
2	RXD1	3	RXD2	485-	2
7	-RTS1	4	-RTS2		7
3	TXD1	5	TXD2	485+	3
8	-CTS1	6	-CTS2		8
4	-DTR1	7	-DTR2		4
9	-RI1	8	-RI2		9
5	Ground1	9	Ground2		5
Case	Case Ground	10	Case Ground	Case Ground	Case



Note: The selected power source will drive the “-RI” signal pin if JP4, or JP5 were located on the power output position.



Touch Screen Interface



### E. Parallel Port Connector (CN3: 26-pin 2.0mm IDC)

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

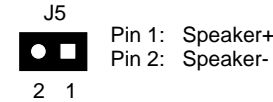
### F. Floppy Connector (CN5: 20-pin 2.0mm IDC)

The included floppy drive interface cable is used to transfer 20-pin connector into standard 34-pin connector. Note that the included floppy cable supports only 720KB, 1.44MB, and 2.88MB floppy disk drives, not for 360KB and 1.2MB.

### G. IDE Hard Disk Connector (CN7: 44-pin 2.0mm IDC)

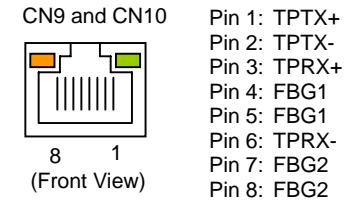
Use 44-pin hard disk cable you can attach up to two 2.5” hard disk drives.

### H. External Speaker Header (J5)

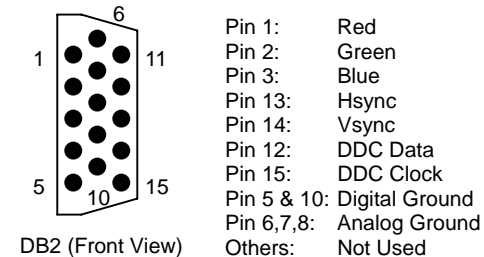


### I. LAN Connectors and LED Indicators (CN9 & CN10: RJ45)

CN9 and CN10 both is RJ45 connector with 2 LEDs for LAN status. 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). CN9 supports LAN port #1 and CN10 for LAN port #2.



### CRT Connector (DB2)



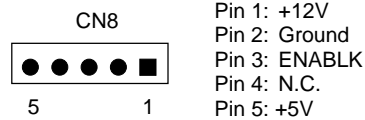
## J. LCD Connectors (CN6 & CN8)

CN6 is 18-bit LCD interface connector and CN8 provides control signals and power source for LCD inverter.

CN6	Signal	CN6	Signal	CN6	Signal	CN6	Signal
1	+5V	21	FPD8	2	+5V	22	FPD9
3	Ground	23	FPD10	4	Ground	24	FPD11
5	+3.3V	25	N.C.	6	+3.3V	26	N.C.
7	N.C.	27	FPD12	8	Ground	28	FPD13
9	N.C.	29	FPD14	10	N.C.	30	FPD15
11	FPD0	31	FDP16	12	FPD1	32	FPD17
13	FPD2	33	Ground	14	FPD3	34	Ground
15	FPD4	35	FPCLK	16	FPD5	36	FPVSYNC
17	N.C.	37	DE	18	N.C.	38	FPHSYNC
19	FDP6	39	ENABLK	20	FPD7	40	ENAVEE

Note 1: N.C. means not connected, it is reserved for upgraded signals.

Note 2: If any trouble when connecting FB2530 with LCD panels, you could contact technical support division of FabiaTech Corporation.

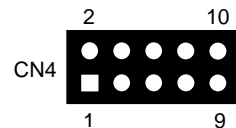


## K. USB Connector (CN11)

CN11 is a standard double port USB connector. The upper port is USB#1 and the lower port is the USB#2.

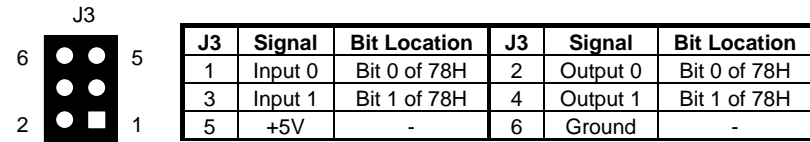
## L. Audio Connector (CN4: 10-pin 2.0mm IDC)

Use the included cable and FB4612B adapter board to realize audio I/O functions.



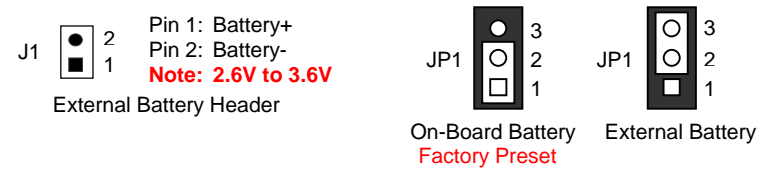
CN4	Signal	CN4	Signal
1	CD-In-L	2	Line-In-L
3	CD-In-R	4	Line-In-R
5	Analog Ground	6	+5V
7	Line-Out-L	8	Mic-In
9	Line-Out-R	10	Ground

## M. TTL I/O Connector (J3)



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

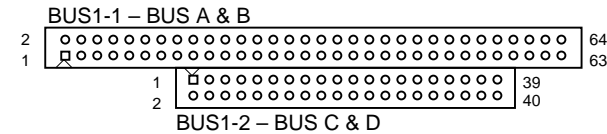
J1 is used to connect an external battery pack if on-board Lithium battery is empty, and please setting JP1 properly of on-board battery or external battery.



## O. SoDIMM Socket (DIMM1)

The DIMM1 socket on the solder side accepts 32MB to 128MB PC-100 SDRAM modules.

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



## 6. Others

### A. Rear Panel LED Indicator (LM1)

