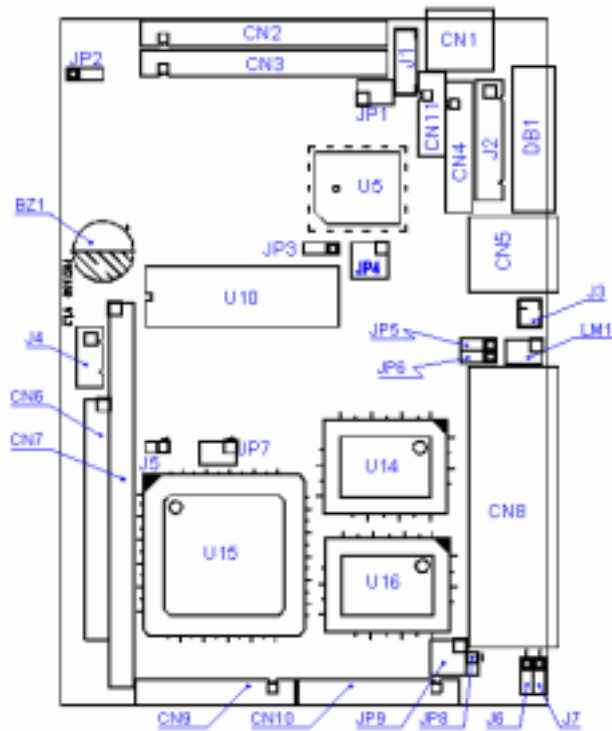


1. Brief

The FB2330 is an All-In-One, 3.5" disk size, 386SX CPU board. This user's quick setting provides the jumper setting, connector location, and their pin assignment.

2. Board Placement



3. Packing List

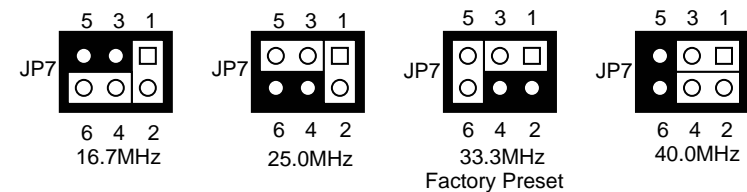
- 1 FB2330 all-in-one CPU board.
- 1 44-pin hard disk drive interface cable.
- 1 20-pin to 34-pin floppy drive interface cable.
- 1 parallel port interface cable.
- 4 serial port adapter cables. (10-pin phone-jack to DB-9)
- 1 CD includes necessary utility drivers, and manual file.
- 1 power adapter cable.
- This quick setup manual.

4. Features

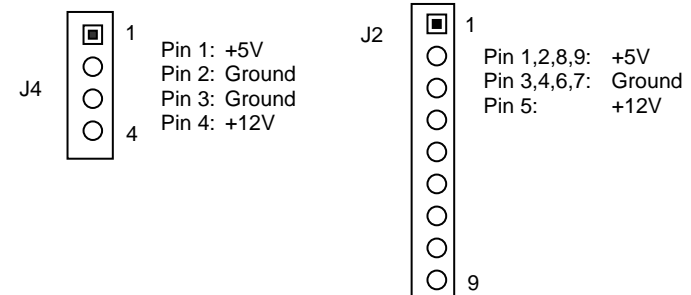
- * Up to 40 MHz 386SX single board computer.
- * PC/104 expansion bus.
- * Up to 8 MB EDO RAM on-board.
- * 10Base-T NE2000 compatible network.
- * Provides CRT and LCD interface with 512KB VRAM. (1MB VRAM is optional).
- * Parallel port, floppy and IDE Interface.
- * 4 RS-232C serial ports with power output. RS-485 is also available.
- * PS/2 compatible keyboard interface and mouse (optional) interface.
- * E2KEY function for safe CMOS data keeping. (Option)
- * On-board buzzer and LED indicator.
- * Flash BIOS with easy upgrade utility.
- * Software programmable watchdog timer.
- * Provides 1 socket for up to 288MB DiskOnChip or 512KB SRAM disk.
- * DS2401 silicon serial number and I/O drive lines. (Option)
- * Low power consumption, +5V only, 2.0A maximum.
- * EMI Considered on every output signals.
- * 3.5" disk form factor, 145 mm x 102 mm.

5. Connectors and Their Relative Jumpers

A. CPU Base Clock Select Jumper (JP7)



B. Power Connectors (J4 and J2, J2 is optional)

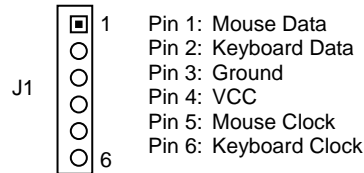


C. Reset Header (J5)

J5 is a 2-pin header for connecting to system reset bottom. Close these 2 pins to reset FB2330 and restart system booting.

D. Keyboard and Mouse Connector (CN1: keyboard and J1: mouse, optional)

CN1 is a standard PS/2 type keyboard connector, so any PS/2 type keyboard can plug into CN1 directly without extra adapter cable. J1 provides PS/2 mouse interface. Use the included mouse adapter cable (optional) to connect between J1 and standard PS/2 mouse.



E. Parallel Port Connectors (CN9 & CN10: 26-pin 2.0mm IDC)

The included printer interface cable is used to transfer 26-pin connector into standard DB25 connector.

F. Serial Port Connectors & Jumpers (CN8, JP5, JP6, JP8, JP9, J6 & J7)

(1) RS-232C Pin Definitions (CN8: 4 10-pin Phone-Jack)

The included serial port adapter cables are used to transfer 10-pin phone-jack connector into standard DB9 connector. The following left table shows signal connections without power output and the following right table shows signal connections with power output:

Phone Jack	Signal	DB9
1	-DCD	1
2	-DSR	6
3	RXD	2
4	-RTS	7
5	TXD	3
6	-CTS	8
7	-DTR	4
8	-RI	9
9	Ground	5
10	Power	-

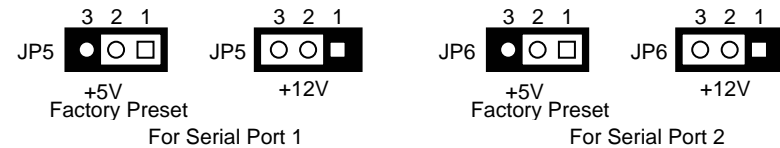
Note: cable without power output

Phone Jack	Signal	DB9
1	-DCD	1
2	-DSR	6
3	RXD	2
4	-RTS	7
5	TXD	3
6	-CTS	8
7	-DTR	4
8	-RI	-
9	Ground	5
10	Power	9

Note: cable with power output

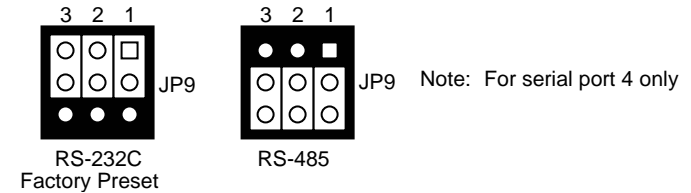
(2) Power Output Select Jumpers (JP5 & JP6)

All 4 serial ports provide power output pin in their phone-jack connectors, but only COM port 1 & 2 have power select jumper. COM port 3 & 4 always supply VCC (+5V) to power output pin. Please use the proper adapter cable to attach the power source.



(3) RS-485 Jumper Select and Pin Definitions (JP8 & JP9)

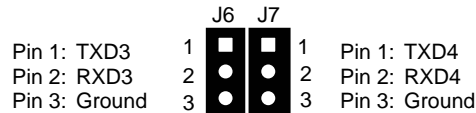
Serial port 4 provides RS-485 function by selecting JP9 jumper. When RS-485 mode is selected, the RS-485 signals use the same connector as RS-232C. JP8 is the terminator on/off jumper only when using RS-485 mode. The following figure and table guide you how to setup RS-485 serial port.



Phone Jack	Signal	DB9
1	-	1
2	-	6
3	485-	2
4	-	7
5	485+	3
6	-	8
7	-	4
8	-	9
9	-	5
10	-	-

(4) Extra RS-232C Headers (J6 & J7)

Header J6 and J7 provide basic RS-232C signals of serial port 3 & serial port 4 respectively. They are used to interface with touch screen module or other internal connection usage.



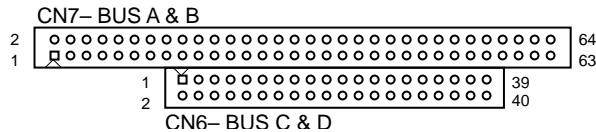
G. Floppy Connector (CN4: 20-pin 2.0mm IDC)

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.

H. IDE Hard Disk Connector (CN2: 44-pin 2.0mm IDC)

Use the included hard disk cable, you can attach up to two 2.5" hard disk drives or DiskOnModule.

I. PC/104 Connectors (CN7: 64-pin IDC & CN6: 40-pin IDC)

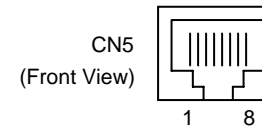


CN7	Signal	CN7	Signal	CN7	Signal	CN7	Signal
1	-IOCHK	33	SA14	2	Ground	34	-DACK1
3	SD7	35	SA13	4	RSTD RV	36	DRQ1
5	SD6	37	SA12	6	+5V	38	-REFSH
7	SD5	39	SA11	8	IRQ9	40	BUSCLK
9	SD4	41	SA10	10	-5V (*1)	42	IRQ7
11	SD3	43	SA9	12	DRQ2	44	IRQ6
13	SD2	45	SA8	14	-12V (*1)	46	IRQ5
15	SD1	47	SA7	16	-ZWS	48	IRQ4
17	SD0	49	SA6	18	+12V	50	IRQ3
19	IORDY	51	SA5	20	Key1	52	-DACK2
21	AEN	53	SA4	22	-MEMW	54	TC
23	SA19	55	SA3	24	-MEMR	56	ALE
25	SA18	57	SA2	26	-IOW	58	+5V
27	SA17	59	SA1	28	-IOR	60	OSC
29	SA16	61	SA0	30	-DACK3	62	Ground
31	SA15	63	Ground	32	DRQ3	64	Ground

Note *1: These power pins are left no connection.

CN6	Signal	CN6	Signal	CN6	Signal	CN6	Signal
1	Ground	21	-MEWR16	2	Ground	22	-DACK5
3	-SBHE	23	SD8	4	-MEM16	24	DRQ5
5	LA23	25	SD9	6	-IO16	26	-DACK6
7	LA22	27	SD10	8	IRQ10	28	DRQ6
9	LA21	29	SD11	10	IRQ11	30	-DACK7
11	LA20	31	SD12	12	IRQ12	32	DRQ7
13	LA19	33	SD13	14	IRQ15	34	+5V
15	LA18	35	SD14	16	IRQ14	36	-MASTER
17	LA17	37	SD15	18	-DACK0	38	Ground
19	-MERD16	39	Key2	20	DRQ0	40	Ground

J. LAN Connector (CN5: RJ45)

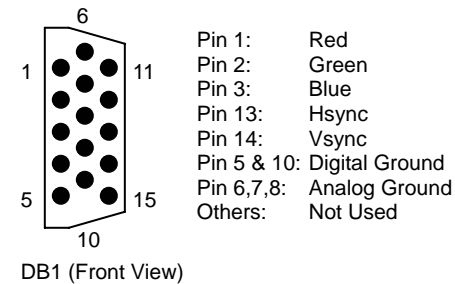


CN5	Signal	CN5	Signal
1	TPTX+	5	Not Used
2	TPTX -	6	TPRX -
3	TPRX+	7	Not Used
4	Not Used	8	Not Used

K. Feature Connector for LAN BNC Interface (CN11, Optional)

It is necessary to use the BNC adapter board (FB4616) and cable for attaching to CN11 connector.

L. CRT Connector (DB1)



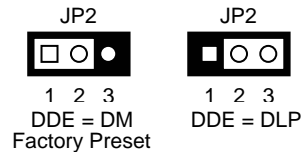
M. LCD Connector & Jumper (CN3 & JP2)

CN3 is a 2.0mm 44-pin connector that provides 24-bit LCD interface signals.

CN3	Signal	CN3	Signal	CN3	Signal	CN3	Signal
1	Ground	23	DP15	2	SHFCLK	24	Ground
3	FLM	25	DP16	4	DLP	26	DP17
5	DDE	27	DP18	6	Ground	28	DP19
7	DP0	29	DP20	8	DP1	30	DP21
9	DP2	31	DP22	10	DP3	32	DP23
11	DP4	33	Ground	12	DP5	34	GPO0 (*1)
13	DP6	35	GPO1 (*1)	14	DP7	36	Ground
15	Ground	37	Ground	16	DP8	38	Ground
17	DP9	39	+12V	18	DP10	40	+12V
19	DP11	41	+5V	20	DP12	42	+5V
21	DP13	43	ENABLK	22	DP14	44	ENAVEE

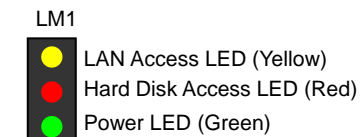
Note *1: GPO0 and GPO1 pins are TTL outputs. They could use as LCD back light controls.

Note *2: Different LCD panel use different BIOS and pin connections. If any trouble when connecting FB2330 with LCD panels, you can contact technical support division of FabiaTech Corporation.



6. Others

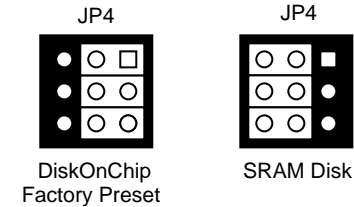
A. Rear Panel LED Indicator: LM1



Front View

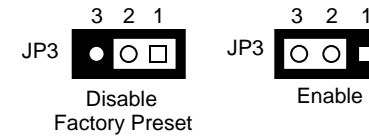
B. DiskOnChip (DOC) and SRAM Disk Select Jumper (JP4)

The U10 socket on FB2330 supports DiskOnChip and SRAM disk. **Before installing the memory chip on the U10 socket, please setting jumper JP4 first**, because incorrect setting of JP4 and memory chips will drain on-board Lithium battery.



Both DiskOnChip and SRAM on socket U10 occupy 8K bytes of memory addresses. The mapping segment is C800:0h.

C. Universal Serial Number (USN, optional) Enable Jumper (JP3)



Note: FB2330 use –RTS and –CTS signals of serial port 4 to control the USN chip. If the USN function is enabled, you may not use full RS-232C signals of serial port 4. If serial port 4 is set as RS-485 mode or interface with touch screen module, you could enable 1: both RS-485 communication and USN function; and 2: touch screen function and USN function.