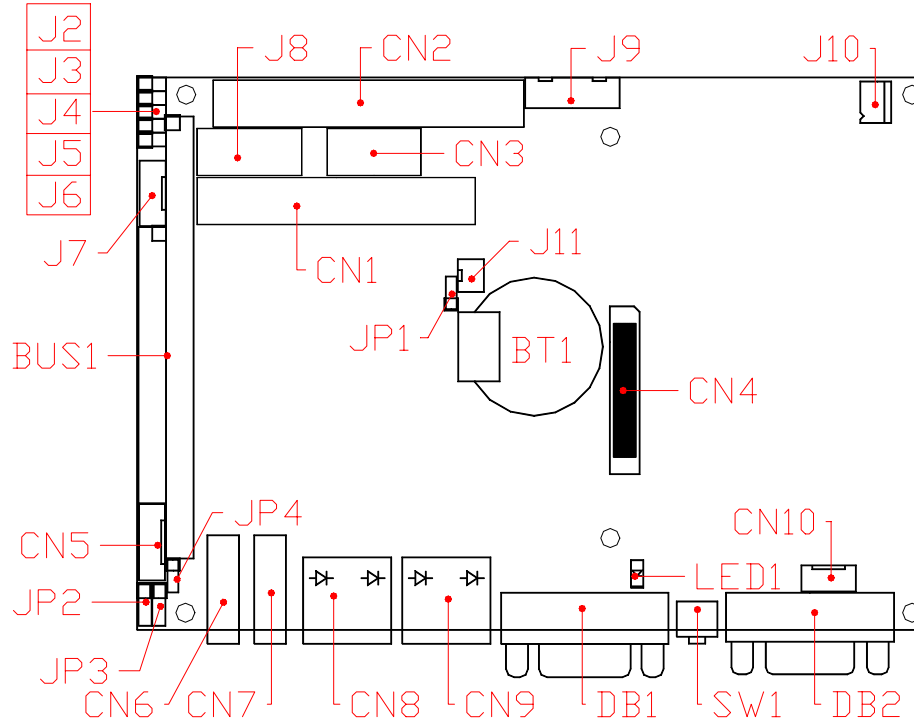


1. Brief

The FB2630 is an all-in-one, 3.5" disk size, low power Celeron CPU board. This user's quick setting provides the jumper settings, connector location, and their pin assignment.

2. Board Placement



3. Packing List

- 1 FB2630 all-in-one CPU board.
- 1 44-pin hard disk drive interface cable.
- 1 50-pin serial port and parallel port interface cable.
- 1 PS/2 keyboard and mouse port adapter cable.
- 1 audio adapter cable with FB4641A adapter board.
- 1 6-pin power adapter cable.
- 1 compact disc includes software utility.
- 1 hard copies of this quick setup manual.

4. Features

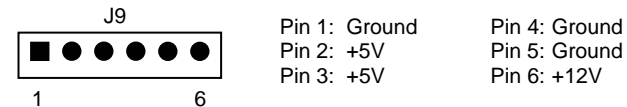
- * On-board 400/650 MHz Intel ultra-low-power (ULV) Celeron CPU.
- * VIA VT8606 chipset with UMA architecture.
- * 1 So-DIMM socket for up to 512MB PC-133 SDRAM.
- * Two 10/100 Base-TX Ethernet ports.
- * Provides CRT and LCD with 4MB to 32MB shared memory.
- * 1 parallel port, 3 RS-232, and 1 RS-232/485.
- * 1 PCI IDE interface and 1 mini-PCI socket for wireless applications.
- * 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 only, 3.2A maximum. (Based on 650MHz CPU)
- * 3.5" disk size, 145 mm x 102 mm (5.7" x 4.0")

5. Connectors, Headers and Their Relative Jumpers

A. Reset Switch (SW1)

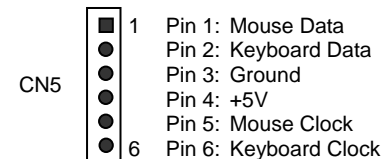
SW1 is a push bottom switch for system reset. Push and release this bottom will cause hardware reset of FB2630 and restart the system booting.

B. Power Connector (J9: 6-pin 2.5mm JST)



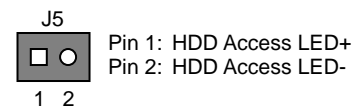
C. Keyboard and Mouse Connector (CN5: 6-pin 2.0mm JST)

CN5 provides PS/2 keyboard and mouse interface, use the included adapter cable to connect



between CN5 and standard PS/2 devices.

D. IDE Hard Disk Connector (CN1: 44-pin 2.0mm IDC) and HDD Access LED Header (J5)



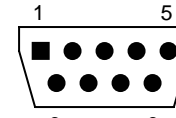
E. Serial and Parallel Port Connectors and Jumpers (DB1, CN2, JP2, JP3, and JP4)

The serial port1, 3, 4 support RS-232 only and the serial port 2 supports RS-232 and RS-485 interface. Use BIOS setup program to select RS-232 or RS-485 of serial port 2, and JP4 provides terminator select of RS-485 mode. The following table lists jumpers and connectors of these 4 serial ports and parallel port.

Functional connector and jumper of serial ports	Serial Port 1	Serial Port 2	Serial Port 3	Serial Port 4
RS-232 Signal	DB1	CN2	CN2	CN2
RS-485 Signal	-	CN2	-	-
RS-485 Terminator	-	JP4	-	-
Power Output Select	-	-	JP3	JP2

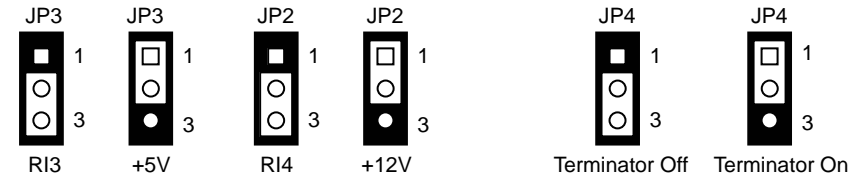
The included serial/parallel cable is used to transfer CN2 to three 9-pin male D-sub and one 26-pin female D-sub connectors. The following table and figures show the pin definitions of DB1, CN2, J12, JP2, JP3 and JP4:

CN2	Signal	Type	CN2	Signal	Type
1	-Strobe	LPT	2	-Auto Form Feed	LPT
3	Data 0	LPT	4	-Error	LPT
5	Data 1	LPT	6	-Initialize	LPT
7	Data 2	LPT	8	-Printer Select In	LPT
9	Data 3	LPT	10	Data 4	LPT
11	Data 5	LPT	12	LPT Ground	LPT
13	Data 6	LPT	14	Data 7	LPT
15	-Acknowledge	LPT	16	LPT Ground	LPT
17	Busy	LPT	18	Paper Empty	LPT
19	Printer Select	LPT	20	Case Ground	LPT
21	-DCD2	COM2	22	-DSR2	COM2
23	RXD2	COM2	24	-RTS2	COM2
25	TXD2	COM2	26	-CTS2	COM2
27	-DTR2	COM2	28	-RI2	COM2
29	Case Ground	COM2	30	Ground2	COM2
31	-DCD3	COM3	32	-DSR3	COM3
33	RXD3	COM3	34	-RTS3	COM3
35	TXD3	COM3	36	-CTS3	COM3
37	-DTR3	COM3	38	-RI3/+5V	COM3
39	Case Ground	COM3	40	Ground3	COM3
41	-DCD4	COM4	42	-DSR4	COM4
43	RXD4	COM4	44	-RTS4	COM4
45	TXD4	COM4	46	-CTS4	COM4
47	-DTR4	COM4	48	-RI4/+12V	COM4
49	Case Ground	COM4	50	Ground4	COM4



DB1 and D-sub connectors on adapter cable (Front View)

- Pin 1: -DCD
- Pin 2: RXD (485-)
- Pin 3: TXD (485+)
- Pin 4: -DTR
- Pin 5: Ground
- Pin 6: -DSR
- Pin 7: -RTS
- Pin 8: -CTS
- Pin 9: -RI



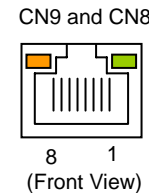
Factory Preset Factory Preset

Factory Preset

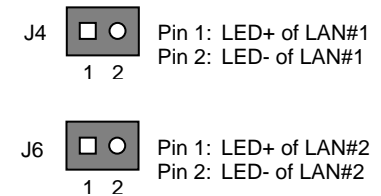
Note: The selected power source will drive the "-RI" signal pin if JP3, or JP2 were located on the power output

F. LAN Connectors and LED Indicators (CN9, CN8, J4, and J6)

CN9 and CN8 both are RJ45 connectors 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 CN8 for LAN port #2.



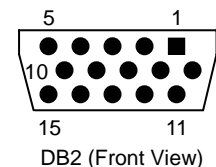
- Pin 1: TPTX+
- Pin 2: TPTX-
- Pin 3: TPRX+
- Pin 4: FBG1
- Pin 5: FBG1
- Pin 6: TPRX-
- Pin 7: FBG2
- Pin 8: FBG2



G. USB Connector (CN6 and CN7)

CN6 and CN7 are all standard USB connectors. The left one is USB#1 and the right one is USB#2.

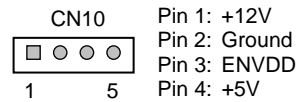
H. CRT Connector (DB2)



- Pin 1: Red
- Pin 2: Green
- Pin 3: Blue
- Pin 4: N.C.
- Pin 5: D. Ground
- Pin 6: A. Ground
- Pin 7: A. Ground
- Pin 8: A. Ground
- Pin 9: N.C.
- Pin 10: D. Ground
- Pin 11: N.C.
- Pin 12: DDC Data
- Pin 13: Hsync
- Pin 14: Vsync
- Pin 15: DDC Clock

I. LCD Connectors (CN4 and CN10)

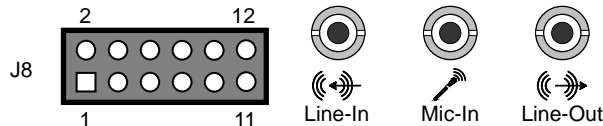
CN4	Signal	CN4	Signal	CN4	Signal	CN4	Signal
1	+5V	21	FP12	2	+5V	22	FP13
3	Ground	23	FP14	4	Ground	24	FP15
5	+3.3V	25	FP16	6	+3.3V	26	FP17
7	N.C.	27	FP18	8	Ground	28	FP19
9	FP0	29	FP20	10	FP1	30	FP21
11	FP2	31	FP22	12	FP3	32	FP23
13	FP4	33	Ground	14	FP5	34	Ground
15	FP6	35	FPCLK	16	FP7	36	FPVS
17	FP8	37	FPDE	18	FP9	38	FPHS
19	FP10	39	ENVDD	20	FP11	40	ENAVEE



Note: If any trouble when connecting FB2630 with LCD panels, you could contact technical support division of FabiaTech Corporation.

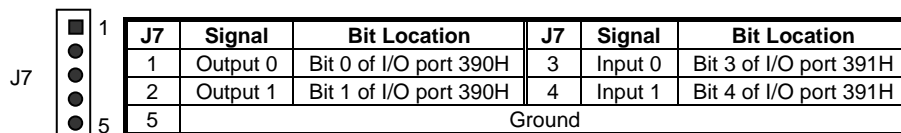
J. Audio Connector (J8: 12-pin 2.0mm IDC)

J8 is a 12-pin 2.0mm IDC connector with AC97 signals for Audio I/O. Use the included Audio cable and FB4641A adapter board for your Audio applications. J3, J4, and J5 connectors on FB4641A are 2-way Line-In, mono Microphone input, and 2-way Line-Out respectively. The following figure shows J8 and Audio connectors on FB4641A board:



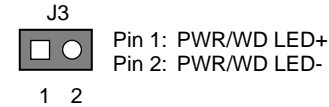
J8	Signal	J8	Signal
1	BITCLK	2	+12V
3	+5V	4	SYNC
5	Ground	6	Ground
7	+3.3V	8	ACRST#
9	SDOUT	10	SPKR
11	SDIN	12	SDIN2

K. TTL I/O Connector (J7)



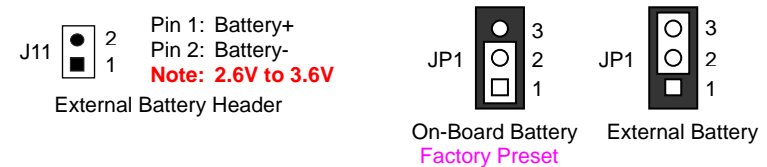
L. Power/Watchdog LED Indicators (LED1 and J3)

LED1 is the on-board Power/Watchdog (PWR/WD) LED and J3 (2-pin header) is used to connect an external PWR/WD LED.



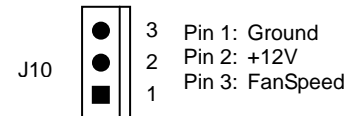
M. External Battery Header and Battery Select Jumper (J11 & JP1)

J11 is used to connect an external battery pack if on-board Lithium battery is low, and please setting JP1 properly of on-board battery or external battery.



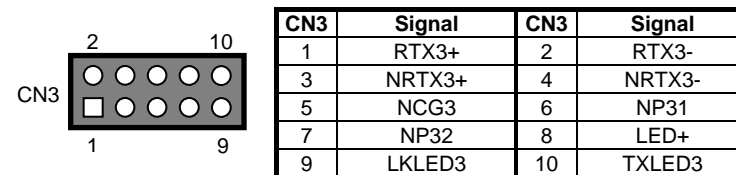
N. Cooling Fan Connector (J10)

J10 is a 3-pin Molex connector and which is reserved to drive CPU cooling fan when non-low power CPU are used.



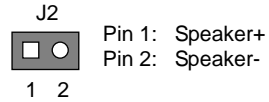
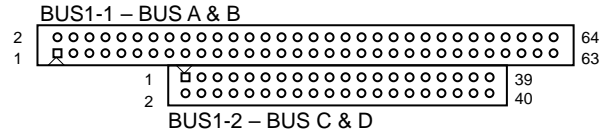
O. Future Connector (CN3: 10-pin 2.0mm IDC, Reserved)

CN3 is a 10-pin 2.0mm IDC connector, which reserved for supporting LAN signals of mini-PCI socket.



P. SoDIMM Socket (DIMM1)

The DIMM1 socket on the solder side accepts 32MB to 512MB PC-133 SDRAM modules.

Q. External Speaker Header (J2)**R. PC/104 Connectors (BUS1: 64-pin IDC & 40-pin IDC)**

BUS1-1	Signal	BUS1-1	Signal	BUS1-1	Signal	BUS1-1	Signal
1	-IOCHK	33	SA14	2	Ground	34	-DACK1
3	SD7	35	SA13	4	RSTDRV	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.

BUS1-2	Signal	BUS1-2	Signal	BUS1-2	Signal	BUS1-2	Signal
1	Ground	21	-MEMW16	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	-MEMR16	39	Key2	20	DRQ0	40	Ground

S. Mini-PCI Socket (BUS2)

The Mini-PCI socket (on the solder side) is ideal for wireless LAN module or other I/O modules.