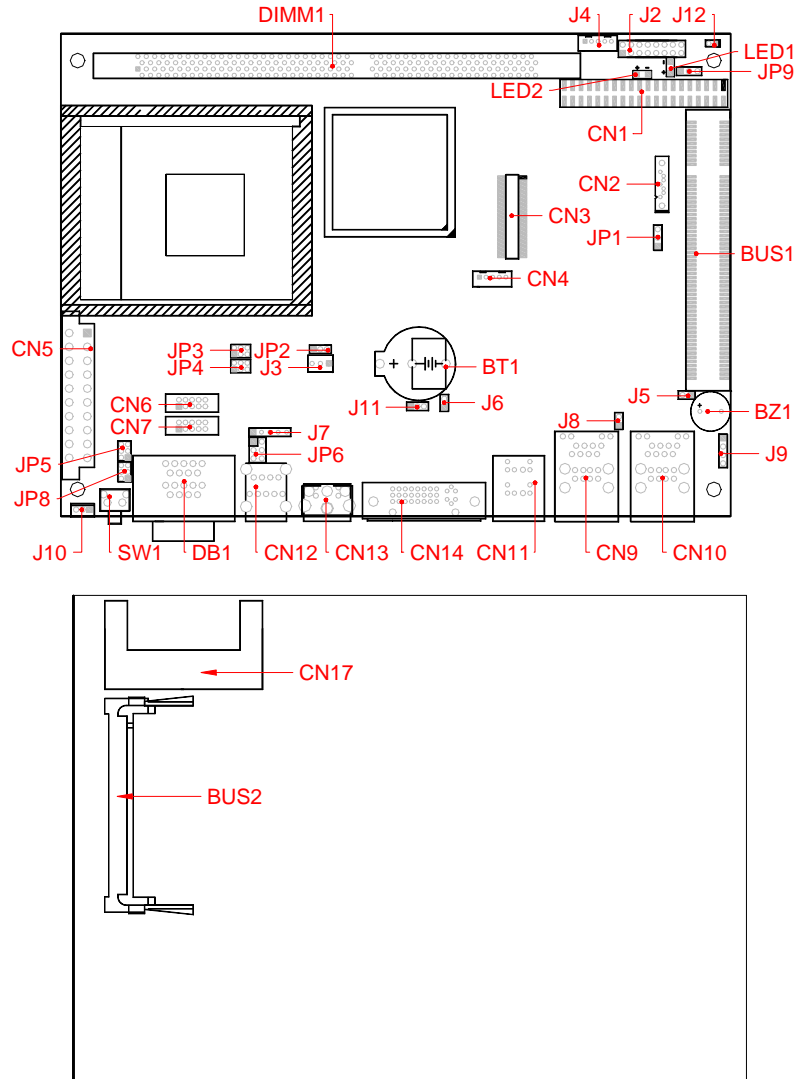


1. Brief

The FB2653 series is a Low power AMD NX and all in one CPU board. This user's quick setting provides the jumper and switch settings, connector location, and their pin assignment.

2. Board Placement



3. Packing List

- 1 FB2653x all-in-one CPU board.
- 1 40-pin IDE hard disk drive interface cable and 2 SATA HDD interface cables.
- 1 DVI to CRT adapter, 1 Keyboard/Mouse and 2 serial port adapter cables.
- 1 compact disc includes software utility.
- 1 hard copies of this quick setup manual.

4. Features

- * On-board low power AMD NX CPU with heat sink only. (Fanless operation)
- * 5.25" (CDROM) size embedded board with PCI expansion bus.
- * VIA KN400A+VT8237R chipset and 256KB 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 (KN400A embedded) supports DVI and LCD with up to 64MB shared memory.
- * 1 PCI IDE, 1 CF Socket, 3 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 V2.0 ports, 4 TTL I/O lines, and AC97 Audio function.
- * Provides 1 CPU cooling fan connector and hardware monitoring functions
- * Software programmable watchdog timer and Flash BIOS with easy upgrade utility.
- * 5.25" size, 146 mm x 203 mm.

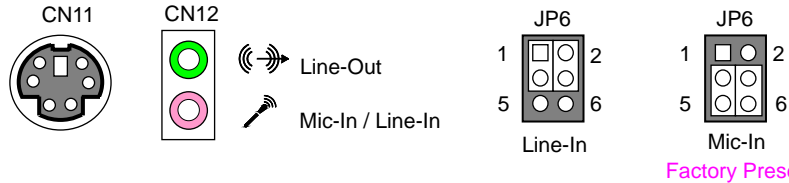
5. Connectors, Headers, and Jumpers List

Name	Function	Name	Function
CN1	40-pin IDE Connector	J2	Mixed I/O and Indicator Header (16-pin)
CN2	7-pin SATA Connector	J3	Cooling Fan Connector (3-pin)
CN3	40-pin LCD Connector	J4	TTL I/O Connector (5-pin)
CN4	5-pin Power Connector for LCD	J5	LAN #2 Access LED Header (2-pin)
CN5	20-pin ATX Power Connector	J6	Case Temp. Sensor Header (2-pin)
CN6	COM3 Connector (10-pin IDC)	J7	IR Header (5-pin)
CN7	COM4 Connector (10-pin IDC)	J8	LAN #1 Access LED Header (2-pin)
CN9	1LAN+2USB Connector #1	J9	External Speaker Header (4-pin)
CN10	1LAN+2USB Connector #2	J11	Reserved Jumper (J1*3)
CN11	Keyboard and Mouse Connector	J12	Wake-On-LAN Select Jumper (J1*2)
CN12	Audio I/O Connector	JP1	Clear CMOS Jumper (J1*3)
CN13	RCA Jack (Video Out)	JP2	Terminator Resistor Select (J1*3)
CN14	DVI Connector (Including CRT)	JP3	Power Output Select for COM4 (J2*3)
CN17	CF Socket (Solder Side, Optional)	JP4	Power Output Select for COM3 (J2*3)
BUS1	PCI Connector	JP5	Power Output Select for COM2 (J2*3)
BUS2	Mini PCI Socket (Solder Side)	JP6	Audio Output Select (J2*3)
BZ1	On-Board Buzzer	JP8	Power Output Select for COM1 (J2*3)
DB1	COM1/COM2 CN. (D-sub 9 * 2)	JP9	Master/Slave Select for CF (J1*3, Optional)
LED1	Power LED (Green)	DIMM1	DDR DIMM Socket (184-pin)
LED2	HDD/CF Access LED (Red)	SW1	User Defined Switch

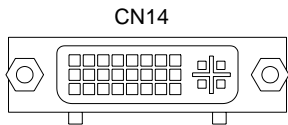
6. Connectors and Their Relative Jumpers

A. Keyboard, Mouse, and Audio Connectors (CN11, CN12, and JP6)

Standard PS/2 keyboard can be plugged into CN11 without any adapter cable. If PS/2 keyboard and mouse will be used simultaneously, an Y-type (3-terminal) adapter cable is needed.



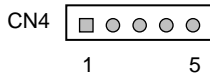
B. Video Connectors (CN3, CN4, CN13, and CN14)



Note: CN14 includes CRT signals, please use the included adapter cable for connecting to CRT monitors



RCA Jack (NTSC/PAL)

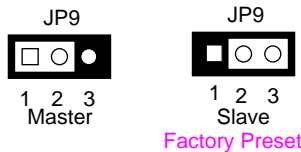


Pin 1: +12V
Pin 2: Ground
Pin 3: ENABLT
Pin 4: VR
Pin 5: +5V

CN3	Signal	CN3	Signal
1	+5V	2	+5V
3	Ground	4	Ground
5	+3.3V	6	+3.3V
7	N.C.	8	Ground
9	FP0	10	FP1
11	FP2	12	FP3
13	FP4	14	FP5
15	FP6	16	FP7
17	FP8	18	FP9
19	FP10	20	FP11
21	FP12	22	FP13
23	FP14	24	FP15
25	FP16	26	FP17
27	FP18	28	FP19
29	FP20	30	FP21
31	FP22	32	FP23
33	Ground	34	Ground
35	FPCLK	36	FPVS
37	FPDE	38	FPHS
39	ENABLT	40	ENAVEE

C. Hard Disk Connectors (CN1 & CN2) and CompactFlash Socket (CN17 & JP9, Optional)

Use the included 40-pin IDE cable and SATA cable, you can attach up to two 3.5" IDE and 1 SATA hard disk drives. Please set the proper Master/Slave device for IDE HDD in order to not conflict with CompactFlash slot (if used). JP9 is used to select master or slave device for CF socket.



D. Power Connector (CN5)

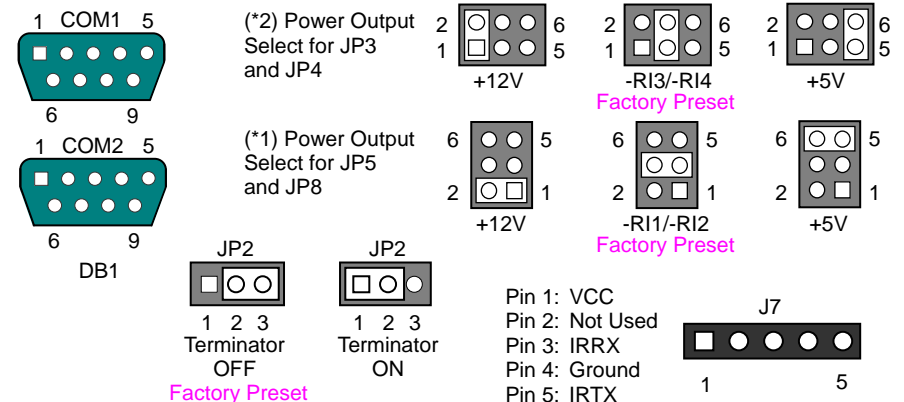
CN5 is a standard 20-pin ATX power connector, Please connect pins 15 and 16 of J2 to a push bottom switch for ATX power On/Off controls (Soft start switch).

E. Serial Port Connectors and Select Jumpers (DB1, CN6, CN7, J7, JP2, JP3, JP4, JP5, and JP8)

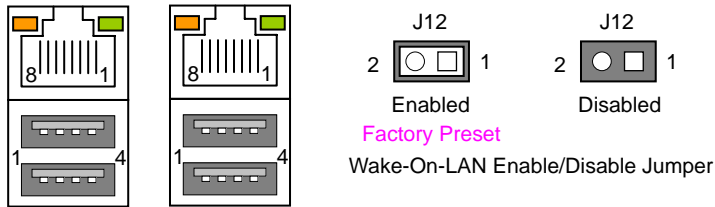
There are 4 connectors and 5 jumpers that served for onboard 4 serial ports. The following table and figure list the combination and pin definition of them:

Functional connector, header, and jumper of serial ports	COM 1	COM 2	COM 3	COM 4
RS-232 Signals	DB1 (Upper)	DB1 (Lower)	CN6	CN7
RS-422 Signals	-	DB1 (Lower)	-	-
RS-485 Signals	-	DB1 (Lower)	-	-
Terminator Select	-	JP2	-	-
Infra Red Signals	-	J7	-	-
Power Output Select	JP8	JP5	JP4	JP3

D-sub 9	COM 1	COM 2 (DB1)			COM 3	COM 4	10-pin IDC
	(DB1)	RS-232	RS-422	RS-485	CN6	CN7	
1	-DCD1	-DCD2		-	-DCD3	-DCD4	1
2	RXD1	RXD2	RX-	485-	RXD3	RXD4	3
3	TXD1	TXD2	RX+	485+	TXD3	TXD4	5
4	-DTR1	-DTR2		-	-DTR3	-DTR4	7
5	Ground1	Ground2			Ground3	Ground4	9
6	-DSR1	-DSR2		-	-DSR3	-DSR4	2
7	-RTS1	-RTS2	TX-	-	-RTS3	-RTS4	4
8	-CTS1	-CTS2	TX+	-	-CTS3	-CTS4	6
9	-RI1 (*1)	-RI2 (*1)		-	-RI3 (*2)	-RI4 (*2)	8
Metal	Case Ground						10



F. USB and LAN Connectors (CN9, CN10, and J12)

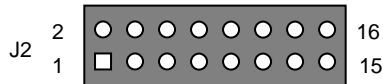


These connectors are all standard LAN and USB connectors. The LAN port is a RJ45 connector with 2 LEDs. The left side LED (orange) indicates data is accessing and the right side LED (green) indicates on-line status. (When lighted indicates on-line and off indicates off-line)

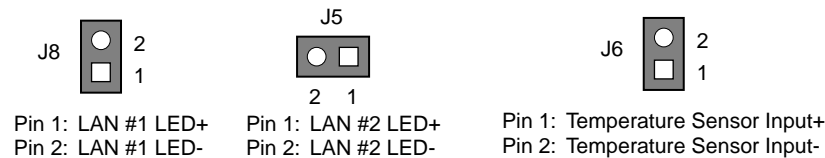
G. TTL I/O Connector (J4: 5-pin 2.0mm JST)

J4	TTL Lines	Bit Location
1	Output Line 0	Please refer to User's Manual for details.
2	Output Line 1	
3	Input Line 0	
4	Input Line 1	
5	Ground	-

H. Mixed I/O and Indicator Header (J2, J5, J6, J8, LED1, and LED2)

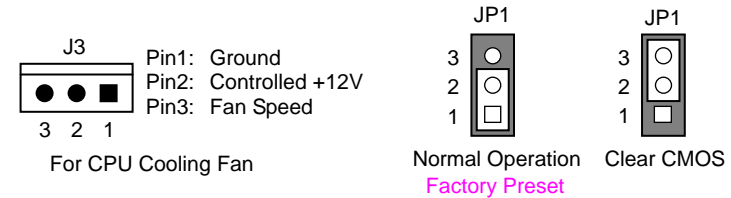


J2	Signal	J2	Signal	Note
1	Power LED+	2	Power LED-	On-Board LED: LED1
3	HDD/CF Access LED+	4	HDD/CF Access LED-	On-Board LED: LED2
5	LAN #1 LED+	6	LAN #1 LED-	
7	LAN #2 LED+	8	LAN #2 LED-	
9	N. C.	10	N. C.	
11	Temperature Sensor Input+	12	Temperature Sensor Input-	
13	Push Button Reset	14	Ground	
15	Soft Start Switch+	16	Soft Start Switch-	



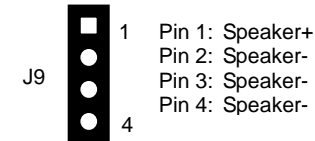
I. Cooling Fan Connector (J3) and Clear CMOS Data (JP1)

J3 is 3-pin Molex connector which is reserved for driving CPU cooling fan. JP1 is used to clear CMOS data by closing pins 2 & 3 for about 3 seconds.



J. On-Board Buzzer and External Speaker Header (BZ1 and J9)

BZ1 is the on-board buzzer and you can use one 2-pin or 4-pin cable connects between an extra 8 ohms speaker with J9 header.



K. DDR DIMM Socket (DIMM1)

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

L. Major Extension BUS (BUS2)

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

M. Minor Extension BUS (BUS1)

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

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