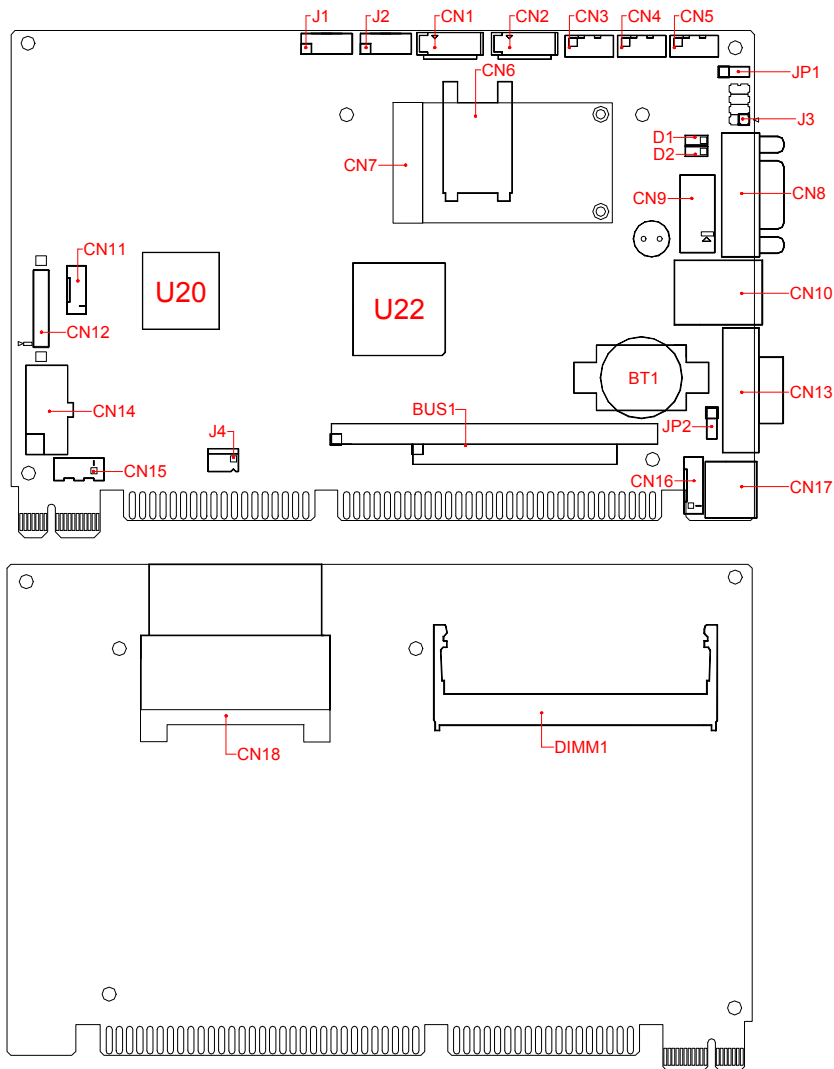


## 1. Brief

The FB2701 series is an all in one, ISA+PCIe half-size CPU card with low power AMD® G-T40E processor. This user's quick setting provides the jumper and switch settings, connector location, and their pin assignment.

## 2. Board Placemen



## 3. Packing List

### A. Standard Items

- 1 FB2701(x) all-in-one CPU board.
- 1 dual serial port interface cable with bracket.
- 2 dual USB adapter cables with bracket.
- 1 Digital Versatile Disc (DVD) includes this quick setup manual, user's manual, and software utilities.

### B. Optional Items

- # SATA interface cable (7-pin, length-15CM, P/N: 7002000033G)
- # Serial interface cable (10-pin JST to 9-pin D-sub, length-20CM, P/N: 7001000006G)
- # Y-type (3-head) keyboard and mouse port adapter cable. (P/N: 7003000008G)
- # Audio with USB Adapter Kit (FB4706 with 2 cables, P/N: 0103020022G)

## 4. Features

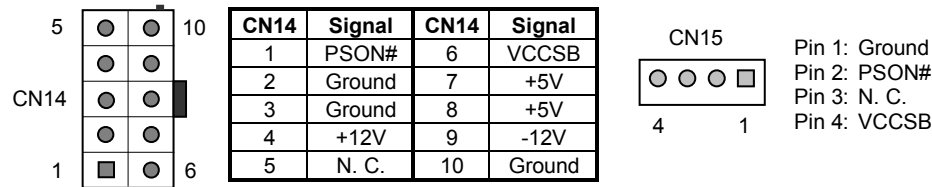
- \* On-board AMD G-T40E processor (1.0GHz, 2C/2T, 1MB Cache, 1066MHz FSB, 6.4 Watts).
- \* AMD A55E chipset (Radeon 6290) supports VGA and LCD interface with UMA architecture.
- \* Supports 1 SoDIMM socket for up to 4GB DDR3L modules.
- \* Provides HD Audio and hardware monitoring functions.
- \* 2 SATA connectors, 1 mPCIe socket, and 1 CFast socket.
- \* 1 GbE, 4 USB, 3 RS-232, 1 RS-232/422/485, and PS/2 KB/MS interface ports.
- \* Supports 16-bit ISA bus and x1 PCIe bus.
- \* Software programmable watchdog timer and Flash BIOS with easy upgrade utility.
- \* Power requires +5V only, 2.8A typical, 5.3A maximum.
- \* Compact size, 185 mm x 122 mm.

## 5. Connectors and Jumpers List

Name	Function	Name	Function
CN1	SATA Connector (7-pin)	J1	USB #1 & #2 Connector (J2*5)
CN2	SATA Connector (7-pin)	J2	USB #3 & #4 Connector (J2*5)
CN3	COM2 Connector (10-pin JST)	J3	Multi-Function Header (J2*6)
CN4	COM3 Connector (10-pin JST)	J4	Cooling Fan Connector (3-pin Molex)
CN5	COM4 Connector (10-pin JST)		
CN6	SIM Socket	JP1	Reserved (J2*3)
CN7	mPCIe Socket	JP2	Clear CMOS Jumper (J1*3)
CN8	COM1 Connector (9-pin D-sub)		
CN9	HD Audio Connector (12-pin IDC)	BUS1	PC/104 BUS (64-pin+40-pin)
CN10	LAN Connector (RJ45 w/LEDs)	BUS2/3	16-bit ISA BUS (Golden Finger)
CN11	LCD Power Connector (5-pin JST)	BUS4	x1 PCIe Bus (Golden Finger)
CN12	LVDS LCD Connector (30-pin DF-13)	BZ1	On-board Buzzer
CN13	VGA Connector (15-pin D-sub)	DIMM1	DDR3L So-DIMM Socket (204-pin)
CN14	Mini ATX Power Connector (10-pin)	D1	SATA/CFast Access LED (Red)
CN15	ATX Signals Connector (4-pin JST)	D2	Power LED (Green)
CN16	PS/2 KB/MS Connector (6-pin JST)		
CN17	PS/2 KB/MS Connector (6-pin mDIN)		
CN18	CFast Socket (24-pin)		

## 6. Connectors and Their Relative Jumpers

### A. Auxiliary Power Connector (CN14) and ATX Power Signal Connector (CN15)



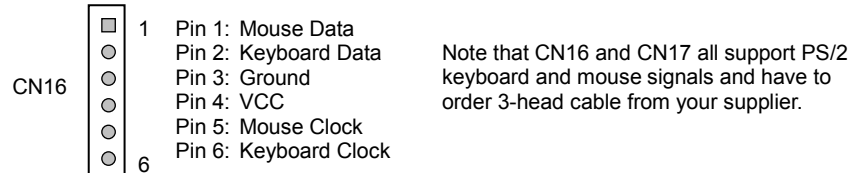
Note : CN14 power connector is ideal for standalone applications.

### B. SoDIMM Socket (DIMM1)

DIMM1 (Located on the solder side) supports 204-pin, 1.35V, and DDR3L DRAM modules with size of 2GB to 8GB.

### C. Keyboard and Mouse Connector (CN17 and CN16)

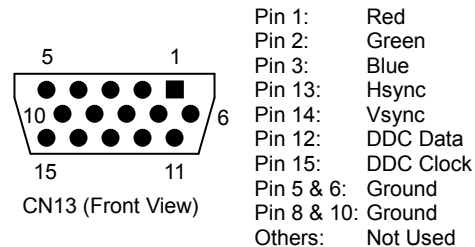
CN17 is a standard PS/2 type keyboard connector and any PS/2 type keyboard can plug into CN17 directly without extra adapter cable. CN16 provides PS/2 keyboard+mouse interface, use optional adapter cable to connect between CN16 and standard PS/2 devices.



### D. SATA Connector and CFast Socket (CN1, CN2, and CN18)

Use the optional 7-pin SATA cable, you can attach up to 2 SATA devices via CN1 and CN2. CN18 is the CFast socket for CFast modules.

### E. VGA Connector (CN13)



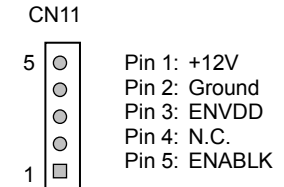
### F. LAN Connector and LED Indicators (CN10)

CN10 is standard RJ45 connector with 2 LEDs. The orange LED indicates data is accessing and the green LED indicates on-line status. (When lighted indicates on-line and off indicates off-line)

### G. LVDS LCD Connectors (CN12 and CN11)

CN12 is a 24-bit LVDS LCD interface connector for widely LCD panel applications. CN11 is the power connector for inverter board.

CN12	Signal	CN12	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	AUX+
15	AUX-	16	Ground
17	HP0	18	N.C.
19	Ground	20	N.C.
21	N.C.	22	Ground
23	N.C.	24	N.C.
25	Ground	26	Ground
27	+3.3V	28	+3.3V
29	+3.3V	30	+3.3V



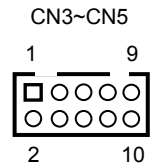
Note: If any question when connecting FB2701x with LCD panels, you could contact technical support division of FabiaTech Corporation.

### H. Serial Port Connectors & Selector (CN8, CN3, CN4, and CN5)

Serial Port	RS-232	RS-422	RS-485	Connector
COM1	V	V	V	CN8 (D-sub 9)
COM2	V	-	-	CN3
COM3	V	-	-	CN4
COM4	V	-	-	CN5
Mode Select for COM1-				BIOS

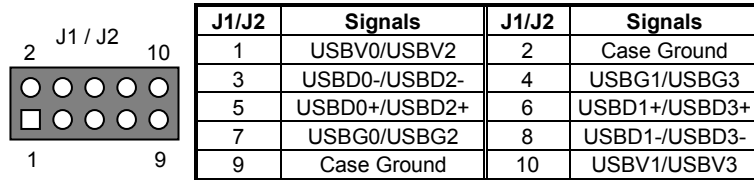
Use the included serial cables for transferring 10-pin JST to 9-pin D-sub connector. (COM2~COM4)

CN3/CN4/CN5	Signals	D-sub 9	RS-232	RS-422	RS-485
1	-DCD2/3/4	1	-DCD1	TX-	485-
6	-DSR2/3/4	6	-DSR1	-	-
2	RXD2/3/4	2	RXD1	TX+	485+
7	-RTS2/3/4	7	-RTS1	-	-
3	TXD2/3/4	3	TXD1	RX+	-
8	-CTS2/3/4	8	-CTS1	-	-
4	-DTR2/3/4	4	-DTR1	RX-	-
9	-RI2/3/4	9	-RI1	-	-
5	Ground2/3/4	5	Ground1	-	-
Metal	Case Ground	Metal	Case Ground	-	-



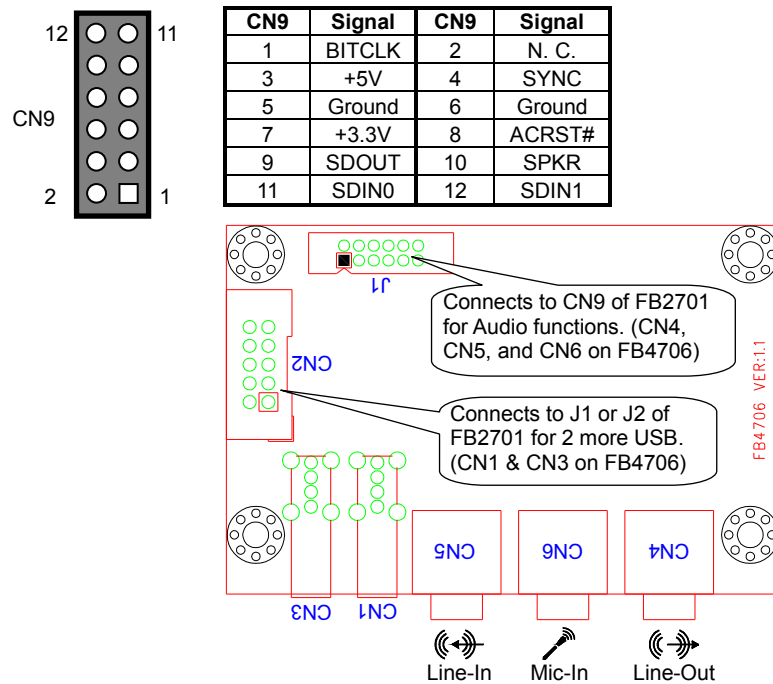
## I. USB Connectors (J1 and J2)

J1 and J2 support 2 port USB signals each. Use the included adapter cable connects to J1 and J2, you can attach up to 4 USB devices.



## J. Audio Connectors (CN9 and CN4, CN5, CN6 on FB4706)

For Audio applications, an Audio with USB kit (optional) is necessary. The Audio with USB kit includes 1 FB4706 adapter board, one 12-pin Audio cable, and one 10-pin USB cable. The following figure shows CN9 signals, function connectors of FB4706 board, and how to connect cables between FB2701 with FB4706.

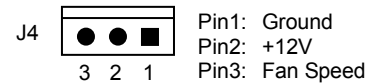


## K. mPCIe Socket (CN7) and SIM Card Socket (CN6)

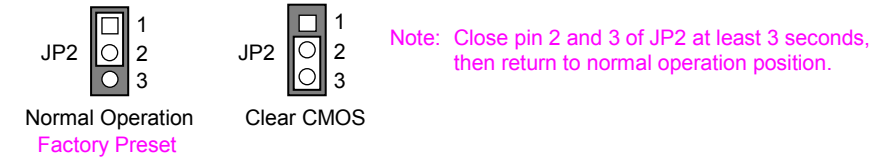
Use CN7 and CN6 for mPCIe applications, such as WiFi, GPRS, LTE, etc.

## L. Cooling Fan Connector (J4)

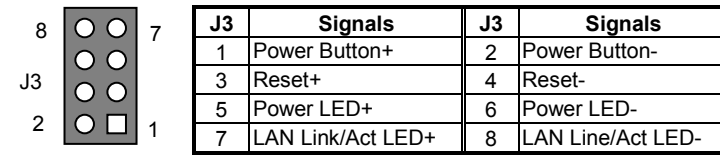
J4 is 3-pin Molex connector which is used to drive CPU cooling fan if necessary.



## M. Clear CMOS Data (JP2)



## N. Multi-Function Header (J3, Signals Including Reset, Power Button, and Indicating LEDs)



## O. Extension BUS (BUS1, BUS2/3, and BUS4)

For detail signal definition of BUS1, BUS2/3, and BUS4, please refers to FB2701x User's Manual.

End of Document