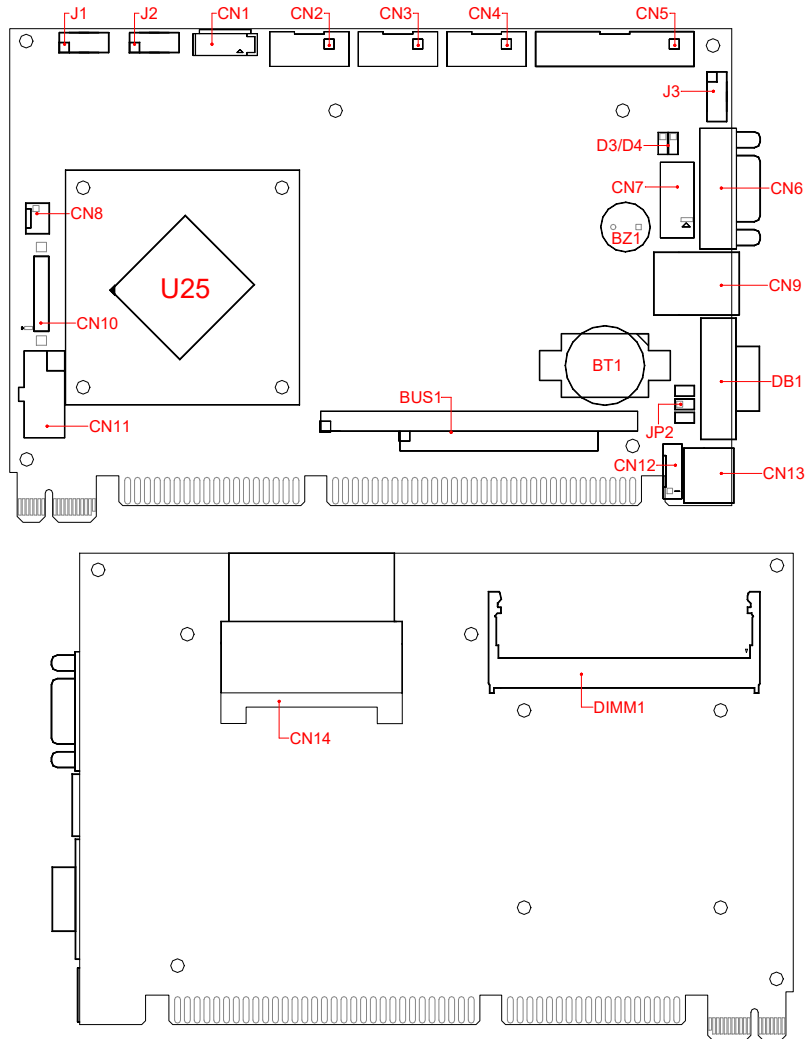


1. Brief

The FB2702 series is an all in one, ISA+PCIe half-size CPU card with low power Intel® Bay Trail J1900 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 FB2702(x) all-in-one CPU board.
- 1 dual serial port interface cable with bracket.
- 2 dual USB adapter cables with bracket.
- 1 Disc (DVD) includes this quick setup manual, user's manual, and software utilities.

B. Optional Items

- # SATA interface cable (7-pin, length-30CM, P/N: 7002000033G)
- # Serial port and printer port interface cable with bracket (P/N: 7001000007G)
- # 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)
- # BP04IE – 4 ISA slot and 1 PCIe*1 slot backplane (P/N: 0103000019G)
- # Auxiliary Power Cable – ATX connect cable, 20cm (P/N: 7103000057G)
- # HD Display Kit – HD cable, 30cm (P/N: 7002040010G)

4. Features

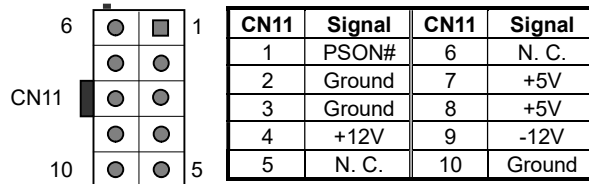
- * On-board Intel Celeron J1900 processor (2.0GHz to 2.42GHz, 4C/4T, 2MB Cache, 1333MHz FSB, 10 Watts) with fanless operation.
- * Intel® HD Graphics supports VGA and LCD interface with UMA architecture.
- * Supports 1 SoDIMM socket for up to 8GB DDR3L modules.
- * Provides HD Audio and hardware monitoring functions.
- * 1 SATA connector 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, 2.4A typical, 5.8A 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	COM4 Connector (10-pin IDC)	J2	USB #3 & #4 Connector (J2*5)
CN3	COM3 Connector (10-pin IDC)	J3	Multi-Function Header (J2*5)
CN4	COM2 Connector (10-pin IDC)		
CN5	LPT Connector (26-pin IDC)	JP1	Reserved (J1*2)
CN6	COM1 Connector (9-pin D-sub)	JP2	Clear CMOS Jumper (J1*2)
CN7	HD Audio Connector (12-pin mIDC)	JP3	Reserved (J1*2)
CN8	Reserved (3-pin Molex)		
CN9	LAN Connector (RJ45 w/LEDs)	BUS1	PC/104 BUS (64-pin+40-pin)
CN10	HD Display Connector (30-pin DF-13)	BUS2/3	16-bit ISA BUS (Golden Finger)
CN11	Mini ATX Power Connector (10-pin)	BUS4	x1 PCIe Bus (Golden Finger)
CN12	PS/2 KB/MS Connector (6-pin JST)	BZ1	On-board Buzzer
CN13	PS/2 KB/MS Connector (6-pin mDIN)	DIMM1	DDR3L So-DIMM Socket (204-pin)
CN14	CFast Socket (24-pin)	D3	SATA/CFast Access LED (Red)
DB1	VGA Connector (15-pin D-sub)	D4	Power LED (Green)

6. Connectors and Their Relative Jumpers

A. Auxiliary Power Connector (CN11)



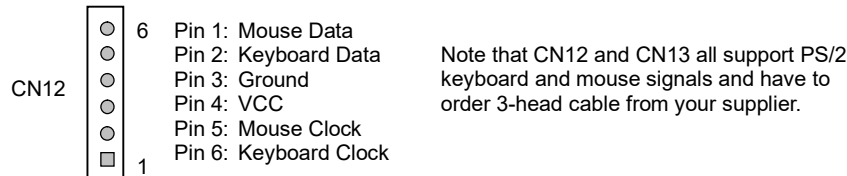
Note : CN11 power connector is ideal for standalone applications.

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 (CN12 and CN13)

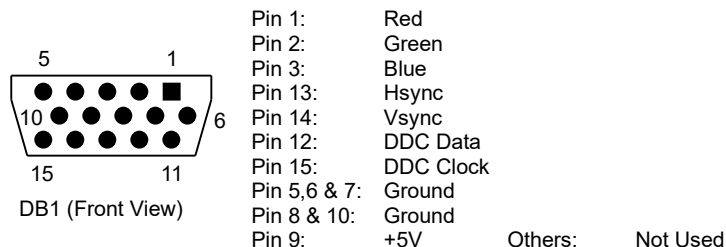
CN13 is a standard PS/2 type keyboard connector and any PS/2 type keyboard can plug into CN13 directly without extra adapter cable. CN12 provides PS/2 keyboard+mouse interface, use optional adapter cable to connect between CN12 and standard PS/2 devices.



D. SATA Connector and CFast Socket (CN1 and CN14)

Use the optional 7-pin SATA cable, you can attach SATA devices via CN1. CN14 (Located on the solder side) is the CFast socket for CFast modules.

E. VGA Connector (DB1)



F. LAN Connector and LED Indicators (CN9)

CN9 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. HD Display Connector (CN10)

CN10 is a 32-bit HD display interface connector for widely HD display panel applications.

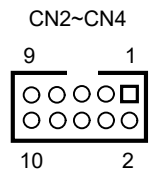
CN10	Signal	CN10	Signal
1	Ground	2	HD_FP0+
3	HD_FP0-	4	Ground
5	HD_FP1+	6	HD_FP1-
7	Ground	8	HD_FP2+
9	HD_FP2-	10	Ground
11	HD_FP3+	12	HD_FP3-
13	Ground	14	HD_AUX+
15	HD_AUX-	16	Ground
17	HD_HPD	18	HD_SDA
19	Ground	20	SCL
21	N.C.	22	Ground
23	N.C.	24	N.C.
25	Ground	26	Ground
27	HD_+3V	28	HD_+5V
29	HD_+3V	30	HD_+5V

H. Serial Port Connectors & Selector (CN6, CN4, CN3, and CN2)

Serial Port	RS-232	RS-422	RS-485	Connector
COM1	V	-	-	CN6 (D-sub 9)
COM2	V	V	V	CN4
COM3	V	-	-	CN3
COM4	V	-	-	CN2
Mode Select for COM2-				BIOS Setup

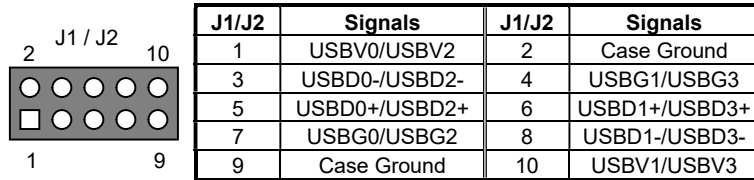
Use the included serial cables for transferring 10-pin IDC to 9-pin D-sub connector. (COM2~COM4)

CN4/CN3/CN2	Signals	D-sub 9	RS-232	RS-422	RS-485
1	-DCD1/3/4	1	-DCD2	TX-	485-
2	-DSR1/3/4	6	-DSR2		-
3	RXD1/3/4	2	RXD2	TX+	485+
4	-RTS1/3/4	7	-RTS2		-
5	TXD1/3/4	3	TXD2	RX+	
6	-CTS1/3/4	8	-CTS2		-
7	-DTR1/3/4	4	-DTR2	RX-	-
8	-RI1/3/4	9	-RI2		-
9	Ground2/3/4	5	Ground2		
10	Case Ground	Metal	Case Ground		



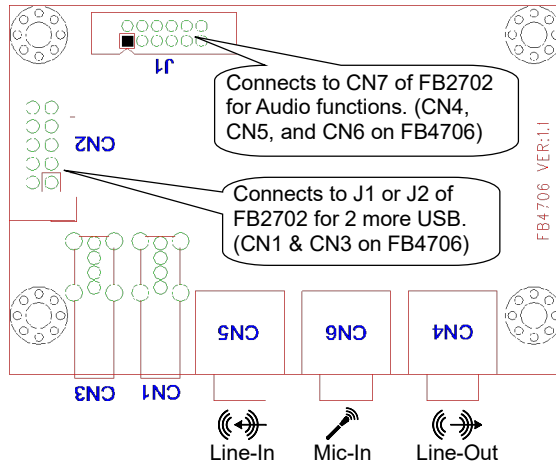
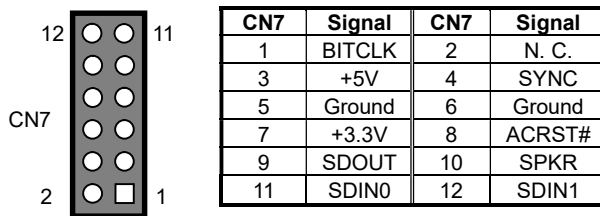
I. USB Connectors (J1 and J2)

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 (CN7 and CN4, CN5, CN6 on FB4706)

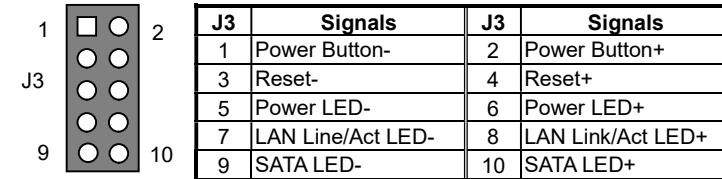
For Audio applications, an Audio with USB kit (optional) is necessary. The Audio with USB kit includes 1 FB4706 adapter board, one 12-pin Audio cable, and one 10-pin USB cable. The following figure shows CN7 signals, function connectors of FB4706 board, and how to connect cables between FB2702 with FB4706.



K. Parallel Port Connector (CN5: 26-pin 2.54mm IDC)

The included printer interface cable (optional) is used to transfer 26-pin connector into standard parallel port connector (D-sub 25-pin).

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



M. Clear CMOS Data (JP2)



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

For detail signal definition of BUS1, BUS2/3, and BUS4, please refers to FB2702x User's Manual.

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