Quick Installation Guide

ECB-866

Intel® Tualatin Pentium® III / Celeron® Full-size CPU Card with VGA, 3D Graphic, & Single 10/100Base-Tx Ethernet

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Part No.2017866000

FCC STATEMENT

THIS DEVICE COMPLIES WITH PART 15 FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE.

(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE

RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS "A" DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES.

THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINTST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTATLLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS.

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

Notice:

This guide is designed for experienced users to setup the system within the shortest time. For detailed information, please always refer to the electronic user's manual.

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To receive the latest version of the user manual, please visit our Web site at:

http://www.evalue-tech.com/

If you still cannot find the answer, gather all the information or questions that apply to your problem, and with the product close at hand, call your dealer. Our dealers are well trained and ready to give you the support you need to get the most from your Evalue's products. In fact, most problems reported are minor and are able to be easily solved over the phone.

In addition, free technical support is available from Evalue's engineers every business day. We are always ready to give advice on application requirements or specific information on the installation and operation of any of our products. Please do not hesitate to call or e-mail us.

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Product Warranty

Evalue warrants to you, the original purchaser, that each of its products will be free from defects in materials and workmanship for two years from the date of purchase.

This warranty does not apply to any products which have been repaired or altered by persons other than repair personnel authorized by Evalue, or which have been subject to misuse, abuse, accident or improper installation. Evalue assumes no liability under the terms of this warranty as a consequence of such events. Because of Evalue's high quality-control standards and rigorous testing, most of our customers never need to use our repair service. If any of Evalue's products is defective, it will be repaired or replaced at no charge during the warranty period. For out-of-warranty repairs, you will be billed according to the cost of replacement materials, service time, and freight. Please consult your dealer for more details. If you think you have a defective product, follow these steps:

1. Collect all the information about the problem encountered. (For example, CPU type and speed, Evalue's products model name, hardware & BIOS revision number, other hardware and software used, etc.) Note anything abnormal and list any on-screen messages you get when the problem occurs.

2. Call your dealer and describe the problem. Please have your manual, product, and any helpful information available.

3. If your product is diagnosed as defective, obtain an RMA (return material authorization) number from your dealer. This allows us to process your good return more quickly.

4. Carefully pack the defective product, a complete Repair and Replacement Order Card and a photocopy proof of purchase date (such as your sales receipt) in a shippable container. A product returned without proof of the purchase date is not eligible for warranty service.

5. Write the RMA number visibly on the outside of the package and ship it prepaid to your dealer.

Packing List

Before you begin installing your single board, please make sure that the following materials have been shipped:

- 1 ECB-866 Intel® Tualatin Pentium® III / Celeron® Full-size CPU Card
- 1 Quick Installation Guide
- 1 CD-ROM contains the followings:
  - User's Manual (this manual in PDF file)
  - Ethernet driver and utilities
  - VGA drivers and utilities
  - System drivers and utilities
  - Latest BIOS (as of the CD-ROM was made)
- Cable set includes the followings:
  - 1 Keyboard and Mouse Cable (6-pin,Mini-Din)
  - 1 LPT/COM cable (26-pin to 25-pin Printer Cable with Bracket)
  - 1 ATX Feature Cable (4-pin 40cm cable)
  - 1 DMA-66 IDE Cable (80pin)
  - 1 FDD Cable (34 to 34-pin Standard Header Flat Ribbon Cable)
  - 1 Keyboard Extension Cable (5pin)

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

1. Safety Precautions

1.1 Warning!

Always completely disconnect the power cord from your chassis or power cable from your board whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

1.2 Caution!

Always ground yourself to remove any static charge before touching the board. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

2. Jumper Settings and Connectors

2.1 Jumper & Connector Layout

2.2 Jumper Settings Summary of ECB-866

Location	Function
KBPW1	For AT & ATX Function
SC2T1 / SC2T2	Select COM2 Type
CMOS1	Clear CMOS

●LPTA1：Parallel Connector (26 Pin 2.54mm Pitch Header)

Pin	Description	Pin	Description
1	Strobe #	2	Auto Form Feed
3	Data0	4	Error #
5	Data1	6	Initialize #
7	Data2	8	Printer Select IN #
9	Data3	10	Ground
11	Data4	12	Ground
13	Data5	14	Ground
15	Data6	16	Ground
17	Data7	18	Ground
19	Acknowledge #	20	Ground
21	Busy	22	Ground
23	Paper Empty	24	Ground
25	Printer Select	26	NC

LPTA1

●FAN1 & FAN2 : 3 Pin FAN Connector

Pin No.	Description
1	Ground
2	+12V
3	FAN Status

FAN1、FAN2

●IDEB1 &IDEB2: IDE Interface Connector (40Pin 2.54mm Pitch Header)

Pin No.	Description	Pin No.	Description
1	Reset #	2	Ground
3	Data 7	4	Data 8
5	Data 6	6	Data 9
7	Data 5	8	Data 10
9	Data 4	10	Data 11
11	Data 3	12	Data 12
13	Data 2	14	Data 13
15	Data 1	16	Data 14
17	Data 0	18	Data 15
19	Ground	20	NC
21	DMA REQ#	22	Ground
23	IOW #	24	Ground
25	IOR #	26	Ground
27	IOCHRDY	28	Ground
29	DMA ACK #	30	Ground
31	Interrupt	32	NC
33	SA1	34	PD80P / SD80P
35	SA0	36	SA2
37	HDC CS0 #	38	HDC CS1 #
39	HDD Active LED #	40	Ground

IDEB1、IDEB2

●**FDCA1 : Floppy Interface Connector (34 Pin Header)**

Pin No.	Description	Pin No.	Description
1	Ground	2	Density Select
3	Ground	4	NC
5	Ground	6	DS1
7	Ground	8	Index #
9	Ground	10	Motor Enable A #
11	Ground	12	Drive Select B #
13	Ground	14	Drive Select A #
15	Ground	16	Motor Enable B #
17	Ground	18	Direction #
19	Ground	20	Step #
21	Ground	22	Write Data #
23	Ground	24	Write Gate #
25	Ground	26	Track 0 #
27	Ground	28	Write Protect #
29	NC	30	Read Data #
31	Ground	32	Head Side Select #
33	NC	34	Disk Change #

● **VGAA1 : External VGA Connector (15 Pin D-Sub)**

Pin No.	Description
1	Red Color Signal
2	Green Color Signal
3	Blue Color Signal
4	NC
5	Ground
6	Ground
7	Ground
8	Ground
9	NC
10	Ground
11	NC
12	DDC-DATA
13	H-Sync.
14	V-Sync.
15	DDC-CLK

VGAA1

●LN1:LAN 2x5Pin 2.0mm(Female)

Pin No.		Pin No.	
1	TX+	2	ACTLD
3	TX-	4	100MLD
5	GND	6	+3.3V
7	RX+	8	GND
9	RX-	10	LNKLD

LN1

●LANB1 :Type 2(RJ-45 with LED)

Pin No.	Description
1	TX+
2	TX-
3	RX+
4	T45
5	T45
6	RX-
7	T78
8	T78
9	Link-
10	Link+
11	ACT-
12	ACT+

LANB1

●COMA1 : RS-232 Serial Port #1 Connector (D-Sub)

Pin No.	Description
1	Data Carrier Detect (DCDA #)
2	Receive Data (RXDA)
3	Transmit Data (TXDA)
4	Data Terminal Ready (DTRA #)
5	Ground (GND)
6	Data Set Ready (DSRA #)
7	Request To Send (RTSA #)
8	Clear To Send (CTSA #)
9	Ring Indicator (RIA #)

●COMB1 : Serial Port #2 Connector (Header)

Pin No.	Description		
	RS-232	**RS-422**	**RS-485**
1	Data Carrier Detect (DCDB #)	Transmit Data– (TXD-)	Data -
2	Data Set Ready (DSRB #)	NC	NC
3	Receive Data (RXDB)	Transmit Data+ (TXD+)	Data +
4	Request To Send (RTSB #)	NC	NC
5	Transmit Data (TXDB)	Receive Data+ (RXD+)	NC
6	Clear To Send (CTSB #)	NC	NC
7	Data Terminal Ready (DTRB #)	Receive Data- (RXD-)	NC
8	Ring Indicator (RIB #)	NC	NC
9	Ground	NC	NC
10	NC	NC	NC

●SC2T1/SC2T2:Select COM2 Type

COM2 TYPE	SC2T1	
RS-232 (Default)	1-2	1-5,2-6,3-7,4-8
RS-422	3-4	5-9,6-10,7-11,8-12
RS-485	5-6	5-9,6-10,7-11,8-12

● IRDA1: Consumer Remote Control IR (CIR)

Pin No.	Description
1	+5V
2	NC
3	CIRRX
4	Ground
5	CIRTX

IRDA2: Alternate IrDA

Pin No.	Description
1	VCC
2	NC
3	IRRX
4	Ground
5	IRTX

IRDA1、IRDA2

●JFAX:Factory Setting

Default :

JFA6(1-3，2-4)

JFA5(1-2)、JFA7(1-2)、JFA8(1-2)

ISP1:ISP GAL Connector (Factory only)

Pin No.	Description
1	+5V
2	SDO
3	SDI
4	ISP
5	NC
6	MODE
7	Ground
8	SCLK

●CPU1:CPU Socket

●CMOS1:Clear CMOS Data

	CMOS1
Normal (Default)	1-2
Clear CMOS	2-3

●USBA1 & USBA2: USB Port #1 & #2 、#3 & #4 Connector 2x5 Pin 2.54mm

Pin No.	Description	Pin No.	Description
1	USB_VCC	2	USB_VCC
3	USB D1-	4	USB D0-
5	USB D1+	6	**USB D0+**
7	Ground	8	Ground
9	**USB Port#2Ground**	10	USB Port#1Ground

USBA1

Pin No.	Description	Pin No.	Description
1	USB_VCC	2	USB_VCC
3	USB D3-	4	USB D2-
5	USB D3+	6	**USB D2+**
7	Ground	8	Ground
9	USB	10	USB

USBA2

●KCN1:5 Pin Keyboard Cable Connector

Pin No.	Description
1	Keyboard Clock
2	Keyboard Data
3	NC
4	Ground
5	+5V

●PKM1 : PS/2 Keyboard & Mouse Connector (Mini Din、Dual Mini Din)

Pin No.	Description
1	PS/2 Keyboard Data
2	PS/2 Mouse Data
3	Ground
4	**+5V**
5	PS/2 Keyboard Clock
6	PS/2 Mouse Clock

●PLRS1 : Power LED,HD LED,Reset, Speaker Connector(11 Pin 2.54mm)

Pin No.	Description
1	Power LED +
2	Power LED +
3	GND
4	HDD LED +
5	HDD LED -
6	RESET SW +
7	RESET SW – (GND)
8	External Speaker -
9	Internal Buzzer -
10	NC
11	External Speaker +

Default :
8-9 (ON)
Internal Buzzer

●DOC1 : Disk-On-Chip Socket

Pin No.	Description	Pin No.	Description
1	AEN	17	SD3
2	IOW#	18	SD4
3	SA15	19	SD5
4	SA12	20	SD6
5	SA7	21	SD7
6	SA6	22	CE#
7	SA5	23	SA10
8	SA4	24	SMEMR#
9	SA3	25	SA11
10	SA2	26	SA9
11	SA1	27	SA8
12	SA0	28	SA13
13	SD0	29	SA14
14	SD1	30	+5V
15	SD2	31	SMEMW#
16	GND	32	+5V

●SDOC1 : Select Flash Disk Address

Flash Disk Address	Sdoc1
CC00H~CDFFH	1-2,9-10
D000H~D1FFH	3-4,7-8
D400h~D5FFH	3-4,9-10
D800H~D9FFH	5-6,7-8
DC00H~DDFFH	5-6,9-10

●DIMMA1:168 Pin DIMM Connector

●PSW1:For ATX Power Button

Pin No.	Descripiton
1	PANSW
2	GND

●ATXC1:For ATX Function

Pin No.	Description
1	GND
2	+5V STANDBY
3	GND
4	PSON

●KBPW1:1x3 Pin 2.54mm

PS/2 Keyboard/Mouse	KBPW1
+5V (Default)	1-2
+5V STANDBY	2-3

●4PSM1 : 4 Pin Power Connector (Big-4P Male)

Pin No.	Description
1	+12V
2	Ground
3	Ground
4	+5V

4PSM1

●DIOA1: Digital Input/ Digital Output Ports(2x5 Pin 2.54mm Header)

Pin No.	Description	Pin	Description
1	IN0	2	OUT0
3	IN1	4	OUT1
5	IN2	6	OUT2
7	IN3	8	OUT3
9	Ground	10	Ground

DIOA1

●SM1:Sound/Mouse 2x8 Pin 2.0mm(Female)

Pin No.	Description	Pin No.	Description
1	ICH_SPKR	2	AC97
3	AC_RST-	4	+5V
5	SYNC	6	GND
7	SDINO	8	+3.3V
9	NC	10	GND
11	BITCLK	12	+5V STANDBY
13	SDOUT	14	NC
15	MSDAT	16	MSCLK

●PSA1:20 Pin ATX Power Connector

Pin No.	Description	Pin No.	Description
1	+3.3V	11	+3.3V
2	**+3.3V**	12	-12V
3	GND	13	GND
4	+5V	14	SWITCH
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	Power Good	18	-5V
9	Stand-By 5V	19	+5V
10	+12V	20	+5V

- **SCR1: Smart Card Reader (Box Header)**

Pin No.	Description	Pin No.	Description
1	+5V	2	NC
3	NC	4	NC
5	SCR FET #	6	SCR RESET
7	SCR CLOCK	8	NC
9	NC	10	SCR IO
11	Ground	12	SCR PRES #
13	NC	14	NC