Quick Installation Guide

3311000 and 3311010

About this Quick Installation

This Quick Installation provides general information and installation instructions about the product. This Quick Installation is intended for experienced users and integrators with hardware knowledge of personal computers. If you are not sure about any description in this Quick Installation, please consult your vendor before further handling.

Warning

Single Board Computers and their components contain very delicate Integrated Circuits (IC). To protect the Single Board Computer and its components against damage from static electricity, you should always follow the following precautions when handling it :

1. Disconnect your Single Board Computer from the power source when you want to work on the inside
2. Hold the board by the edges and try not to touch the IC chips, leads or circuitry
3. Use a grounded wrist strap when handling computer components.
4. Place components on a grounded antistatic pad or on the bag that came with the Single Board Computer, whenever components are separated from the system
5. It possibly needs BIOS support in the case of using special backplane, otherwise, it might be not able to function completely.

Specification	
Product Name	3311000
Form Factor	ETX Board Size (114 X 95mm)
CPU Type	3311000: BGA 3311010: PGA
Processor	µFC-BGA479 pin Celeron-M 600MHz up to LV Dothan1.4 GHz(400MHz FSB) OEM:µFC-PGA478 pin Pentium-M 1.1GHz~1.8GHz(400Mhz FSB)
Chipset	NB : Intel 852GM SB: Intel ICH4
System Memory	One SO-DIMM 200Pin to support DDR 200/266 SDRAM Up to 1GB
VGA/LCD Controller	UMA 852GM AGP Video Controller with DVI, LVDS and CRT support (Support Dual Display, Independent display)
Ethernet	Intel 82562 EZ 10/100 Base-T Fast Ethernet LAN
I/O Chips	WINBOUND W83627HF x 1
BIOS	Phoenix-Award BIOS version 6.0PG, Support 4MB Flash ROM
Audio	AC97 Codec Version:2.1 supports MIC-In/ Line-In/ Line-out
IDE Interface	ATA-100 x 2 channel (Support four ATAPI devices)
Two Serial Port	Two TTL (16550 compatible),IrDA support
Parallel Port	Parallel Port Supports SPP/ EPP/ ECP mode(Share with 1 Floppy drive)
K/B and Mouse	Support Standard PS/2 K/B and Mouse
Universal Serial Bus	6 x USB 2.0 Port
Expansion Interface	PCI Interface x 6 master
Watchdog Timer Chipset	1~255 Level (sec or min)
Hardware Monitor Chipset	Integrated in W83627HF
RTC	Support Real Time Clock
Operation Temp.	0ºC ~ 60ºC
Dimension (L x W)	114 x 95 mm (4.5" x 3.7")

Packing list

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

> 1 x 3311000 ETX CPU module

OR

1 x 3311010 ETX CPU module

> 1 x Quick Installation Guide

> 1 x CD driver

> 1 x Warranty Card

Ordering Codes

3311000A	Intel Celeron M 600MHz without L2 Cache
3311000B	Intel Celeron M 1GHz L2=512K
3311000C	Intel Pentium M 1400MHz L2=2M
3311010	Intel µFCPGA 478 socket for Intel Pentium M CPU 1.4~1.8 GHz, 2MB L2 Cache
1001020	ATX form factor evaluation board for 3311000 and 3311010

Heat Sink for 3311000

Heat Sink for 3311010

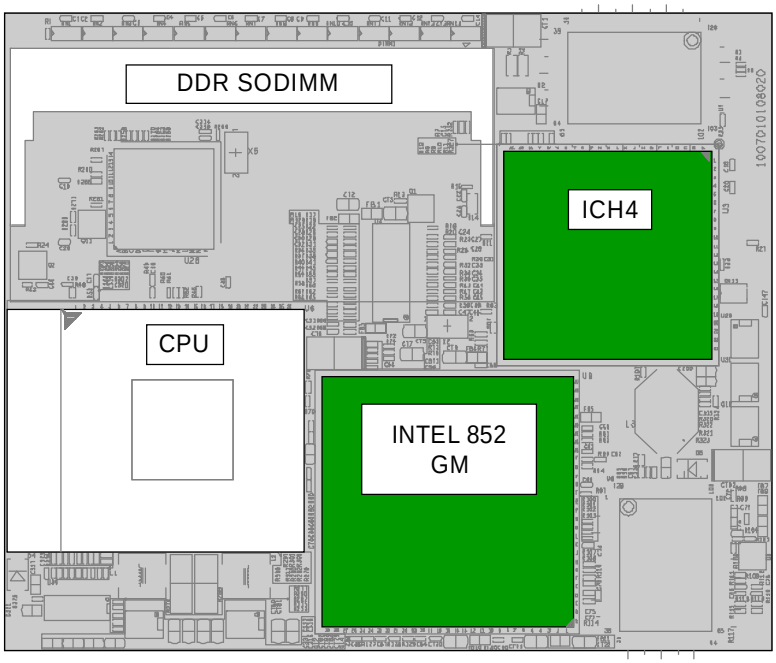
CPU:

Pentium-M 1.4GHz (µFCPGA 478pin) for 3311010

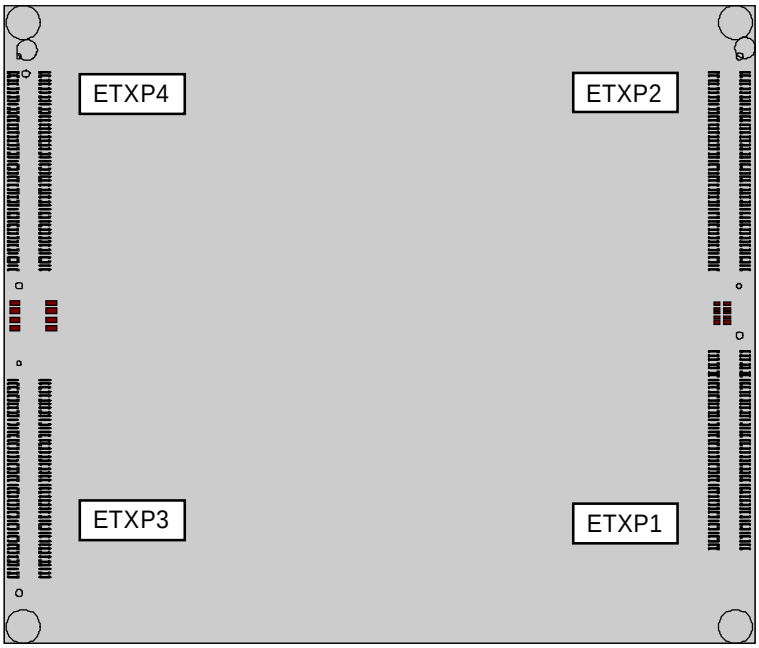
Pentium-M 1.6GHz (µFCPGA 478pin) for 3311010

Pentium-M 1.7GHz (µFCPGA 478pin) for 3311010

Board Layout Top View (Front)



Board Layout Top View (Back)



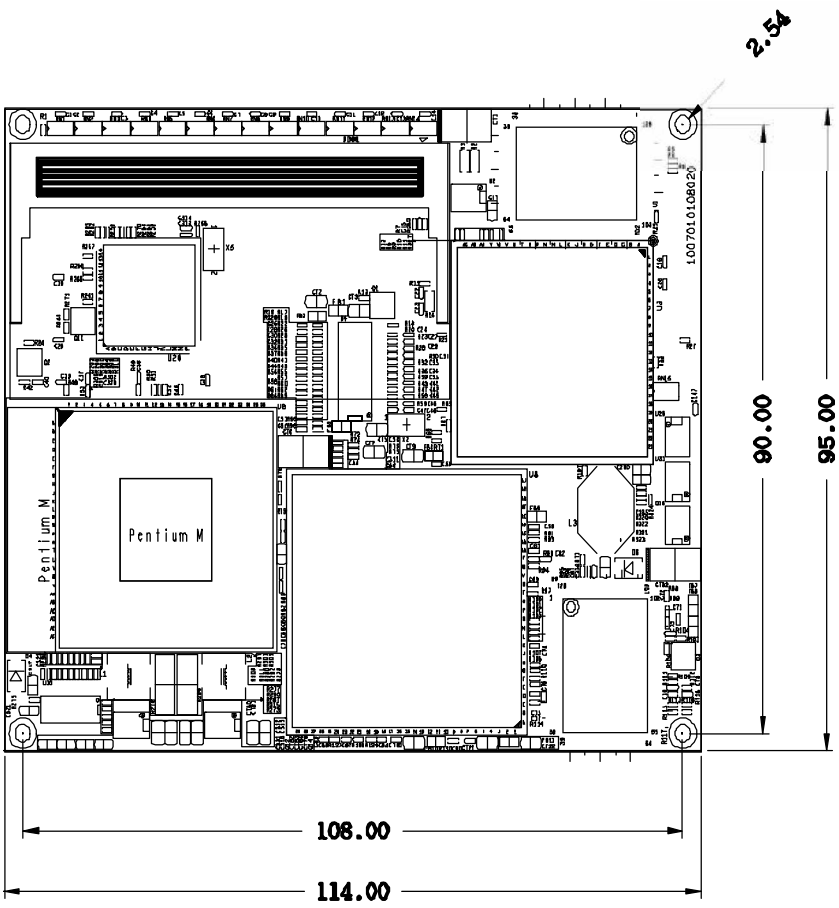
ETXP1 PCI1~4, Audio, USB1, USB2

ETXP2 TMDS, DVO, PCI5, PCI6, LPC, Misc

ETXP3 CRT, LVDS, TV, COM, LPT / FDD, KB, MS, Misc

ETXP4 IDE1, IDE2, LAN, SMBUS, WDT, Misc

Board Dimension



UNIT: mm

ETXP Connector

ETX1

1	GND	GND	2
3	PCICLK3	PCICLK4	4
5	GND	GND	6
7	PCICLK1	PCICLK2	8
9	REQ#3	GNT#3	10
11	GNT#2	VCC3	12
13	REQ#2	GNT#1	14
15	REQ#1	VCC3	16
17	GNT#0	N.C	18
19	VCC	VCC	20
21	SERIRQ	REQ#0	22
23	AD0	VCC3	24
25	AD1	AD2	26
27	AD4	AD3	28
29	AD6	AD5	30
31	CBE#0	AD7	32
33	AD8	AD9	34
35	GND	GND	36
37	AD10	AUXAL	38
39	AD11	MIC	40
41	AD12	AUXAR	42
43	AD13	ASVCC	44
45	AD14	SNDL	46
47	AD15	ASGND	48
49	CBE#1	SNDR	50
51	VCC	VCC	52
53	PAR	SERR#	54
55	PERR#	N.C	56
57	PME#	USB2-	58
59	LOCK#	DEVSEL#	60
61	TRDY#	USB3-	62
63	IRDY#	STOP#	64
65	FRAME#	USB2+	66
67	GND	GND	68
69	AD16	CBE#2	70
71	AD17	USB3+	72
73	AD19	AD18	74
75	AD20	USB0-	76
77	AD22	AD21	78
79	AD23	USB1-	80
81	AD24	CBE#3	82
83	VCC	VCC	84
85	AD25	AD26	86
87	AD28	USB0+	88
89	AD27	AD29	90
91	AD30	USB1+	92
93	PCIRST#	AD31	94
95	INTR#C	INTR#D	96
97	INTR#A	INTR#B	98
99	GND	GND	100

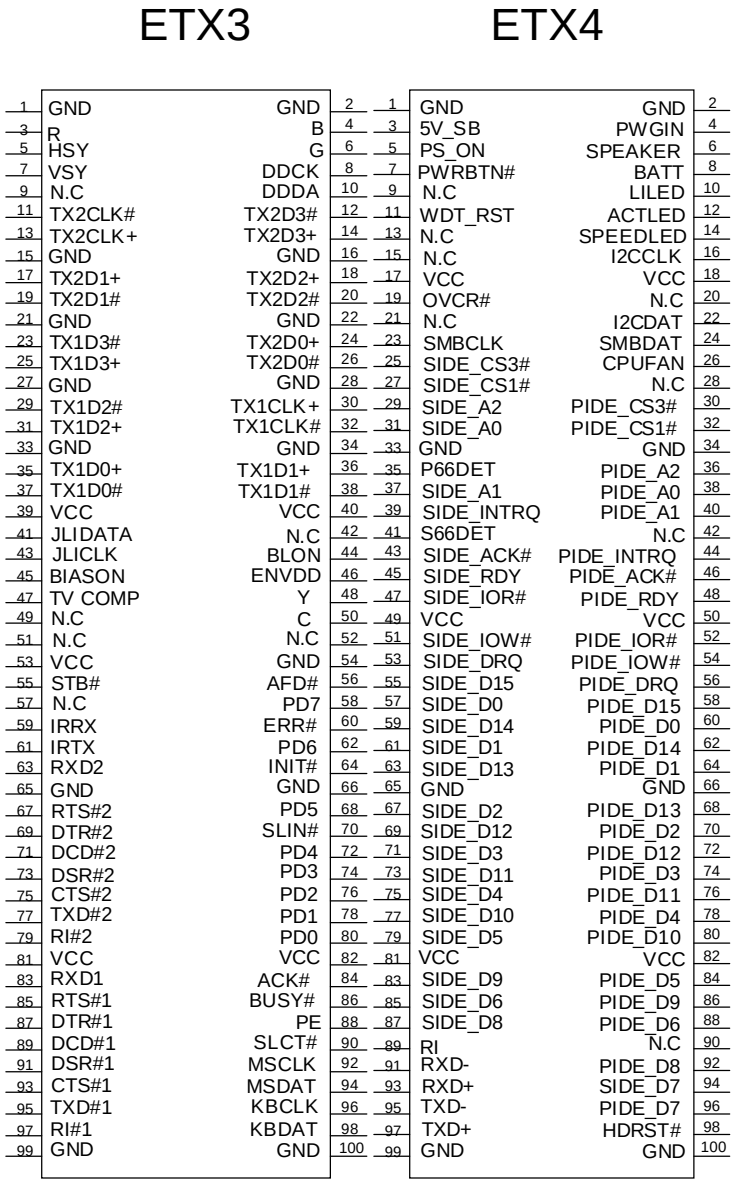
ETX2

1	GND	GND	2
3	TMDS_TX1+	TMDS_CLK+	4
5	TMDS_TX1-	TMDS_CLK-	6
7	N.C.	N.C.	8
9	TMDS_TX2+	TMDS_TX0+	10
11	TMDS_TX2-	TMDS_TX0-	12
13	DVI_HPD	5VDDCDATA	14
15	-LFRAME	5VDDCCLK	16
17	-LDRQ0	PCICLK_SIO2	18
19	-LDRQ1	LAD1	20
21	USB_-OC4	LAD2	22
23	USBP5+	LAD0	24
25	USBP5-	LAD3	26
27	REQ#4	USBP4-	28
29	DVOB_VSYNC	USBP4+	30
31	DVOB_HSYNC	PCICLK5	32
33	MDDC_CLK	PCICLK6	34
35	GND	GND	36
37	MDDC_DATA	ISA_NOGO	38
39	ADD_DETECT	-PPDGNTA	40
41	DVOB_D2	GNT#5	42
43	DVOB_D4	GNT#4	44
45	DVOB_D5	-PPDREQA	46
47	DVOB_D1	REQ#5	48
49	DVOB_D6	DVOB_D3	50
51	VCC	VCC	52
53	DVOB_D0	DVOB_-CLK	54
55	DVOB_CLK	DVOB_D9	56
57	DVOB_D7	DVOB_D8	58
59	N.C.	DVOB_FLDSTL	60
61	DVOB_-CLKINT	DVOB_D10	62
63	DVOB_D11	N.C.	64
65	DVOB_-BLANK	N.C.	66
67	GND	GND	68
69	MDVI_DATA	N.C.	70
71	MDVI_CLK	MI2C_CLK	72
73	N.C.	MI2C_DATA	74
75	DVOC_HSYNC	DVOC_VSYNC	76
77	DVOC_D1	DVOC_D3	78
79	N.C.	DVOC_BLANK	80
81	DVOC_D0	DVOC_D2	82
83	VCC	VCC	84
85	DVOC_D4	DVOC_CLK	86
87	DVOC_D7	DVOC_-CLK	88
89	DVOC_D6	DVO_VREF	90
91	DVOC_D11	DVOC_D8	92
93	DVOC_FLDSTL	DVOBC_-INTR	94
95	DVOC_D10	DVOC_D5	96
97	ADDID7	DVOC_D9	98
99	GND	GND	100

PCI Routing Table

PCI Slot	IDSEL	INT	REQ / GNT	CLK
1	AD19	A	REQ / GNT 0	PCICLK1
2	AD20	B	REQ / GNT 1	PCICLK2
3	AD21	C	REQ / GNT 2	PCICLK3
4	AD22	D	REQ / GNT 3	PCICLK4
5	AD17	C	REQ / GNT 4	PCICLK5
6	AD18	D	REQ / GNT 5	PCICLK6

ETXP Connector



Driver Setup

The architecture of 3311000 and 3311010 is similar to 3312450 and 3312460. Hence, driver installation is the same with 3312450 and 3312460 except AUDIO driver.

1. For installing general drviers for 3311000 and 3311010, select 3312450:

2. 3311000 and 3311010 uses VIA audio chip, you need to browse CD to get correct drvier.

The via audio driver is locateed at \DRIVER\AUDIO\VIA\setup.exe

Any advice or comments about our products and service, or anything we can help you with please don't hesitate to contact with us. We will do our best to support you for your products, projects and business

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