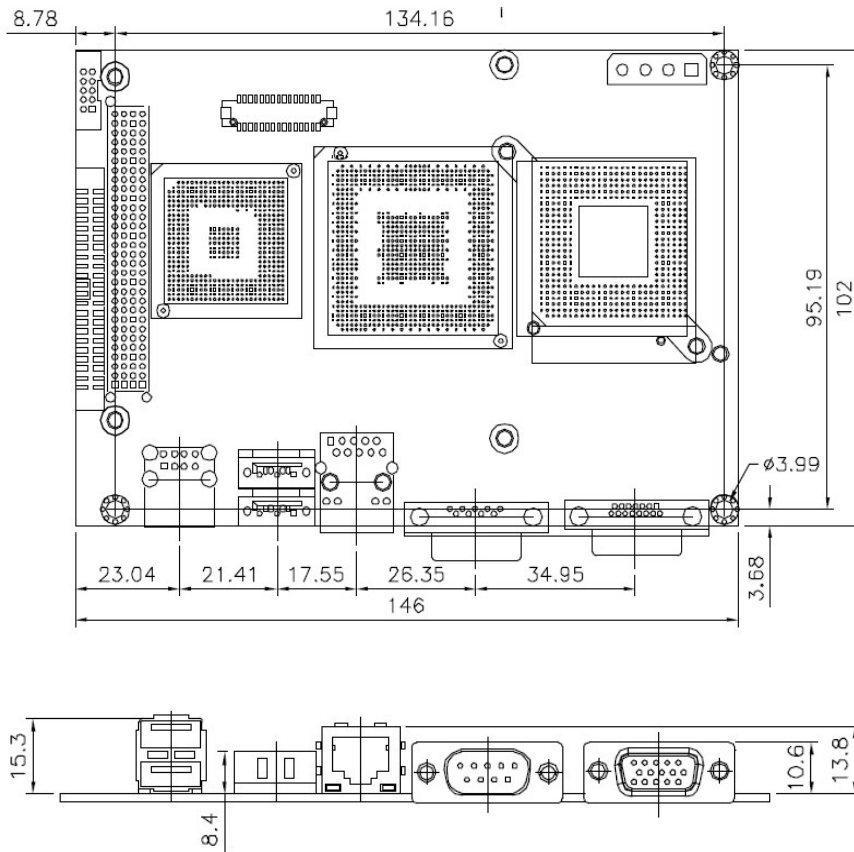


3.5" SBC Intel Pentium M / Celeron M processor FSB533,
CRT/LVDS,GbE, SATA and Audio

Dimension



WAFER-6612

Quick Installation Guide

Version 1.0

May. 17, 2006

Package Contents

WAFER-6612 package includes the following items:

- 1x WAFER-6612 single board computer
- 1x ATA33 44p/44p flat cable P/N: 32200-000009-RS
- 2x SATA cable P/N: 32000-062800-RS
- 1x SATA Power cable P/N: 32100-088600-RS
- 1x RS232 cable P/N: 32000-072100-RS
- 1 x RS-232 and RS-422/485 P/N: 32200-026500-RS
- 1 x USB cable P/N: 32000-070300-RS
- 1x KB/MS cable (P/N: 32000-023800-RS)
- 1 x Mini Jumper pack
- 1 x CD-ROM Driver
- 1 x QIG

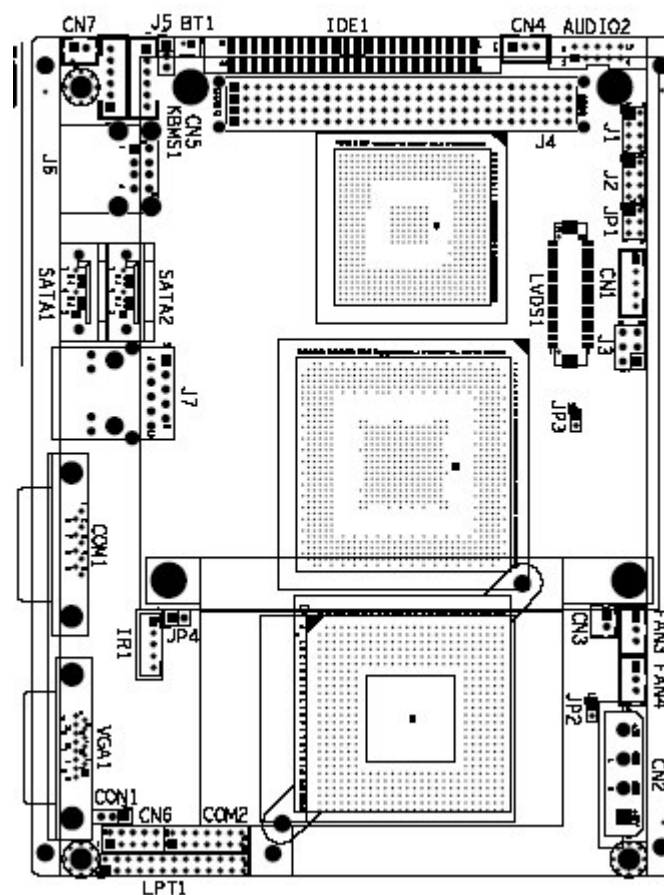


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Specifications

- CPU: Intel Pentium M/Celeron M
 - System Chipset: SIS661CX+SIS 964
 - BIOS: AMI BIOS Label
 - System memory: 1x DDR400 SO-DIMM socket support up to 1GB
 - Ethernet: RTL8110S for GbE
 - I/O
- I/O Interface:
- 6x USB 2.0(2 in rear, 4 by pin header)
 - 1 x RS-232, 1 x RS-422/485
 - 2 x SATA
 - 1 x LPT
 - 1 x IDE
 - 1 x CFII
 - 1 x PS/2 keyboard/mouse(PSII Type)
- Supper I/O: W83697HG
 - Audio: AC'97 2.3 Realtek ALC655
 - Display:
CRT integrated in SIS 661CX
LVDS-Dual 24-Bit LVDS integrated in SiS 302LV support dual display TV-OUT by SiS 302LV
 - Watchdog timer: Software programmable supports 1~255 sec. by supper I/O
 - Power Supply: AT/ATX power support
 - Power Consumption:
+5V@4.76A; +12V@1.4A(Intel® Pentium® M FSB 400MHz 1.5 GHz CPU with DDR333 512MB RAM)
 - Temperature: 0 ~ 60°C(32 ~ 140°F)
 - Humidity: Operation: 5% ~ 95%

Layout



LVDS1: LCD LVDS Interface Connector			
PIN	Description	PIN	Description
1	GND	2	GND
3	A0P	4	A0M
5	A1P	6	A1M
7	A2P	8	A2M
9	CLK1M	10	CLK1M
11	A3P	12	A3M
13	GND	14	GND
15	A4P	16	A4M
17	A5P	18	A5M
19	A6P	20	A6M
21	CLK2P	22	CLK2M
23	A7P	24	A7M
25	GND	26	GND
27	LCD_VDD	28	LCD_VDD
29	LCD_VDD	30	LCD_VDD

IR2: IR Interface	
PIN NO.	DESCRIPTION
1	5V
2	IRRX1
3	IRRX
4	GND
5	IRTX

FAN3,FAN4 : Fan Connector	
PIN	DESCRIPTION
1	Fan Speed
2	+5V
3	GND

AUDIO2 : AUDIO (10-pin Pin Header)			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	ROUT	2	LINR
3	GND	4	GND
5	LOUT	6	LINL
7	GND	8	GND
9	MICIN	10	MICIN

Ordering Information

Standard

WAFER-6612-R10

3.5" WAFER Socket 479 Intel® Pentium® M/ Celeron® M FSB533MHz CPU board with VGA, LVDS, TV-OUT, GbE, Audio and SATA

WAFER-6612-800Z-R10

3.5" WAFER ULV Intel® Celeron® M 800 zero cache CPU board with VGA, LVDS, TV-OUT, GbE, Audio and SATA

Optional:

TV-OUT cable P/N: 19800-000054-RS

LPT cable P/N: 32200-015100-RS

Jumpers

J5: Clear CMOS Setup	
J5	Description
2-3	Normal Operation
1-2	Clear CMOS Setup

JP2: FOR 533FSB CPU	
JP2	Description
OPEN	DEFAULT
CLOSE	FOR 533FSB CPU

JP3: CPU FREQUENCY	
JP3	Description
OPEN	100MHZ
CLOSE	133MHZ

JP4: CF card setup	
JP4	Description
Open	Slave(Default)
Close	Master

JP1: LCD voltage setup	
JP1	Description
3-4	5V(Default)
1-2	3V
5-6	12V

CON1: RS-232/485 Setup(for COM2)	
CON1	Description
1-2	RS-232(Default)
2-3	RS-422

CN7: PWR BUTTON	
CN7	Description
1-2	PWR BUTTON

CN3: RESET	
CN3	Description
1-2	RESET

CN6: GPIO Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	5V
3	GPO0	4	GPO1
5	GPO2	6	GPO3
7	GPI0	8	GPI1
9	GPI2	10	GPI3

CN4: PS_ON# CONNECTOR	
PIN	Description
1	5VSB
2	GND
3	PS_ON#

CN5 : System Panel Connectors	
PIN	DESCRIPTION
1	+5V
2	GND
3-4	POWER LED
5-6	HDLED

COM1: COM2(RS-232/485) (14-pin Pin Header, Shared with COM2.)			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	NDCD2	2	NDSR2
3	NRX2	4	NRTS2
5	NTX2	6	NCTS2
7	NDTR2	8	NRI2
9	GND	10	GND
11	TX2+	12	TX2-
13	RX2+	14	RX2-

J2: USB(0~1) Connector(1*4 Pin header)			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	USBV0L	5	USBV0L
2	DATA0_N	6	DATA1_N
3	DATA0_P	7	DATA1_P
4	GND	8	GND

J1: USB(4~5) Connector(1*4 Pin header)			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	5V	2	GND
3	USBP4N	4	USBP5P
5	USBP4P	6	USBP5N
7	GND	8	5V

CN1: Inverter Power Connector	
PIN	Description
1	NC
2	GND
3	12V
4	GND
5	EN_BL

PW1: BIG 4 PIN Power Connector	
PIN	DESCRIPTION
1	+12V
2	GND
3	GND
4	+5V

J3: TV OUT			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	GND	2	TVDAC_B
3	GND	4	TVDAC_C
5	GND	6	TVDAC_A