



User's Manual

3301284 / 3304284

Edition 1.0

January 11, 2007

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Safety Instructions

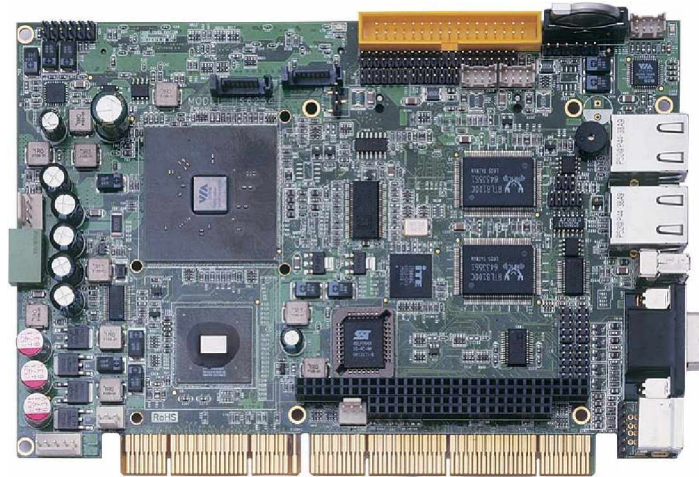
Integrated circuits on computer boards are sensitive to static electricity. To avoid damaging chips from electrostatic discharge, observe the following precautions:

- ” Do not remove boards or integrated circuits from their anti-static packaging until you are ready to install them.
- ” Before handling a board or integrated circuit, touch an unpainted portion of the system unit chassis for a few seconds. This helps to discharge any static electricity on your body.
- ” Wear a wrist-grounding strap, available from most electronic component stores, when handling boards and components. Fasten the ALLIGATOR clip of the strap to the end of the shielded wire lead from a grounded object. Please wear and connect the strap before handle the product to ensure harmlessly discharge any static electricity through the strap.
- ” Please use an anti-static pad when putting down any components or parts or tools outside the computer. You may also use an anti-static bag instead of the pad. Please inquire from your local supplier for additional assistance in finding the necessary anti-static gadgets.

NOTE: *DO NOT TOUCH THE BOARD OR ANY OTHER SENSITIVE COMPONENTS WITHOUT ALL NECESSARY ANTI-STATIC PROTECTIONS.*

Chapter 1

General Description



The 3301284/3304284 is a VIA CX700 chipset-based board designed. The 3301284/3304284 is an ideal all-in-one single board computer. Additional features include an enhanced I/O with CF, CRT/LVDS, dual LAN, audio, SATA, 4 COM, USB2.0, and PC/104 interfaces.

Its onboard ATA/33/66/100 to IDE drive interface architecture allows the 3301284/3304284 to support data transfers of 33, 66 or 100MB/sec. to one IDE drive connection. Designed with the VIA CX700, the board supports VIA C7 or ULV VIA V4 Eden 600MHz~2.0GHz CPU.

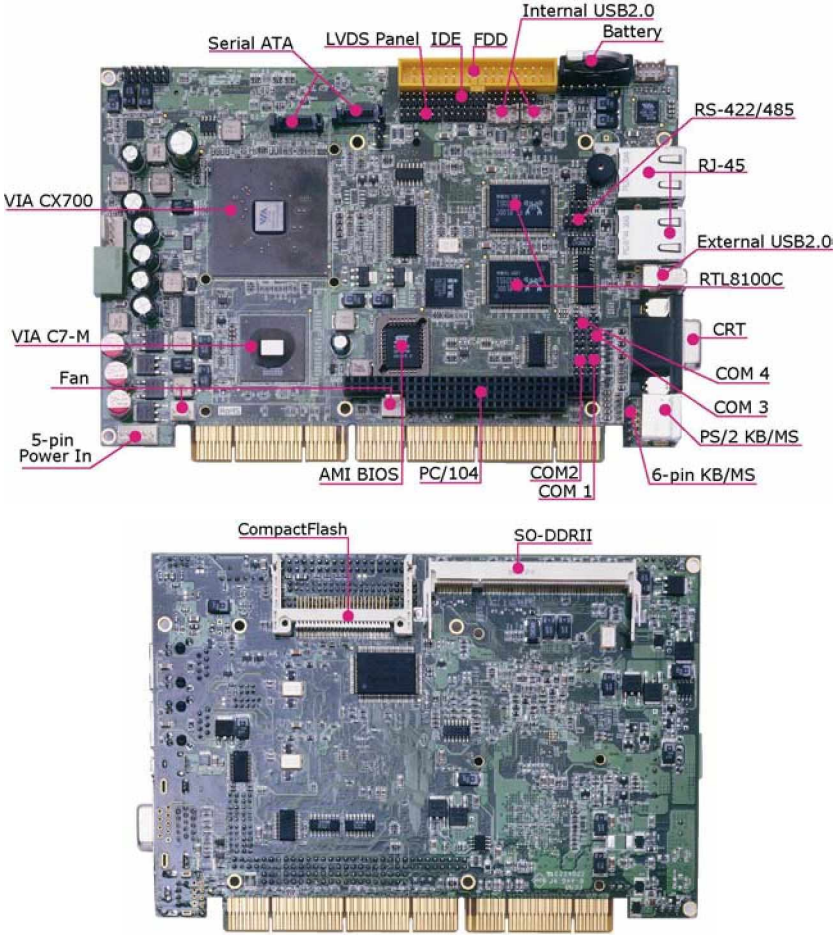
The VIA CX700 with 32/64/128MB shared main memory supporting CRT/Panel displays up to 2048 x 1536. It also supports 24-bit single channel/48-bit dual channel LVDS interface supporting up to 1600 x 1200.

System memory is also sufficient with the one SO-DDRII socket that can support up to 1G.

Additional onboard connectors include five USB2.0 ports providing faster data transmission. And two external RJ-45 connectors for 10/100 Based Ethernet use.

To ensure the reliability in an unmanned or standalone system, the watchdog timer (WDT) onboard 3301284/3304284 is designed with software that does not need the arithmetical functions of a real-time clock chip. If any program causes unexpected halts to the system, the onboard WDT will automatically reset the CPU or generate an interrupt to resolve such condition.

1.1 Major Features



The 3301284/3304284 comes with the following features:

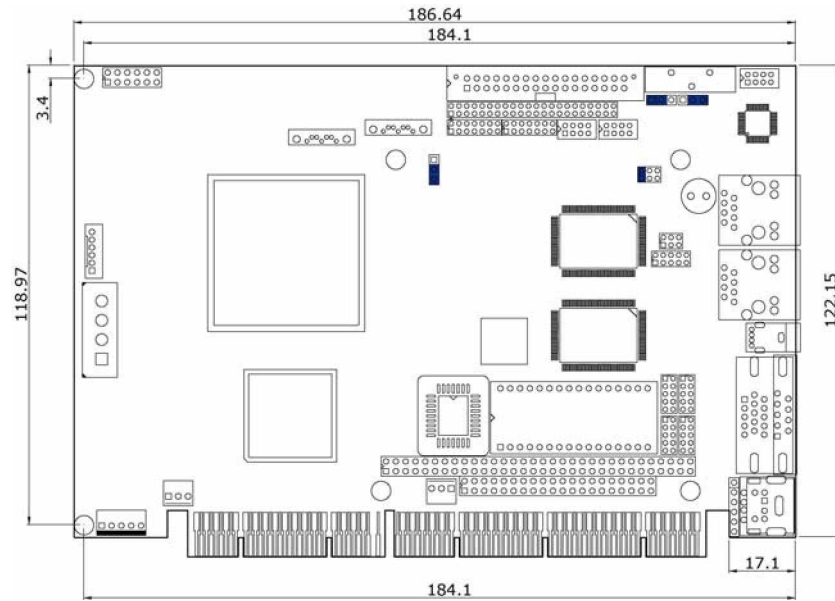
- ¾ VIA C7 or ULV VIA V4 Eden processor 600MHz~2.0GHz
- ¾ One SO-DDRII socket with a max. capacity of 1GB
- ¾ VIA CX700 system chipset
- ¾ Winbond W83697UF super I/O chipset
- ¾ VIA CX700 graphics controller
- ¾ 24-bit/48-bit LVDS Panel display interface
- ¾ Dual RealTek RTL8100C Ethernet controller
- ¾ VIA VT1708A HD audio controller
- ¾ VIA CX700 Serial ATA controller
- ¾ Fast PCI ATA/33/66/100 IDE controller
- ¾ CompactFlash card adapter, 4 COM, 5 USB2.0, PC/104
- ¾ Single +5V power in
- ¾ Hardware Monitor function

1.2 Specifications

- ” **CPU:**
ULV VIA V4 Eden 600MHz/800MHz/1.0GHz processor
VIA C7 1.0/1.5/2.0GHz processor
- ” **Bus Interface:** PCI-ISA Bus (no 3.3V, +/-12V output through goldfinger)
- ” **Front Side Bus:** Supports 400MHz FSB
- ” **Memory:** One SO-DDRII socket supporting up to 1GB
- ” **Chipset:** VIA CX700
- ” **I/O Chipset:** Winbond W83697UF
- ” **CompactFlash:** One, Type I/II IDE interface adapter
- ” **VGA:** VIA CX700 with 32/64/128MB shared main memory supporting CRT/Panel displays up to 2048 x 1536
- ” **LVDS Panel:** Supports 24-bit single channel/48-bit dual channel LVDS interface up to 1600 x 1200
- ” **Ethernet:** Dual RealTek RTL8100C 10/100 Based LAN
- ” **Audio:** VIA VT1708A HD audio controller
- ” **Serial ATA:** VIA CX700 controller and with two ports supporting a transfer rate up to 150MB/sec.
- ” **IDE:** One 2.0pitch 44-pin IDE connector
- ” **FDD:** Supports up to two floppy disk drives
- ” **Serial Port:** 16C550 UART-compatible RS-232/422/485 x 1 and RS-232 x 3 serial ports with 16-byte FIFO
- ” **PC/104:** PC/104 Bus connector for 16-bit ISA Bus
- ” **USB:** 5 USB2.0 ports, internal x 4 and external x 1
- ” **Keyboard/Mouse:** PS/2 6-pin Mini DIN or 6-pin header
- ” **BIOS:** AMI PnP Flash BIOS

- ” **Watchdog Timer:** Software programmable time-out intervals from 1~256 sec.
- ” **CMOS:** Battery backup
- ” **Power In:** Single +5V power in
- ” **Hardware Monitor:** Winbond W83L784R (only for PCB v0.5 or above)
- ” **Board Size:** 18.6(L) x 12.2(W) cm

1.3 Board Dimensions



Chapter 2

Unpacking

2.1 Opening the Delivery Package

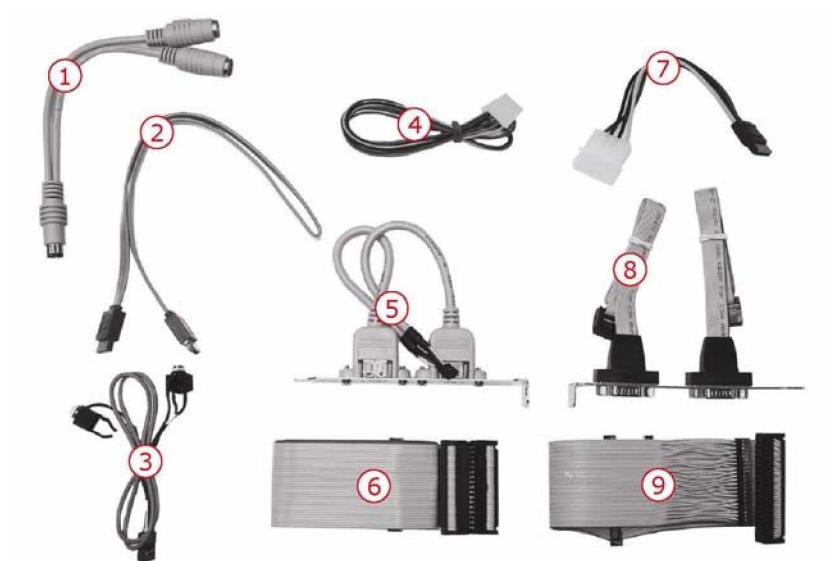
The 3301284/3304284 is packed in an anti-static bag. The board has components that are easily damaged by static electricity. Do not remove the anti-static wrapping until proper precautions have been taken. Safety Instructions in front of this manual describe anti-static precautions and procedures.

2.2 Inspection

After unpacking the board, place it on a raised surface and carefully inspect the board for any damage that might have occurred during shipment. Ground the board and exercise extreme care to prevent damage to the board from static electricity.

Integrated circuits will sometimes come out of their sockets during shipment. Examine all integrated circuits, particularly the BIOS, processor, memory modules, ROM-Disk, and keyboard controller chip to ensure that they are firmly seated. The 3301284/3304284 delivery package contains the following items:

- „ 3301284/3304284 Board x 1
- „ Utility CD Disk x 1
- „ Cables Package x 1
- „ User's Manual



Cables Package	
NO.	Description
1	Keyboard/Mouse transfer cable x 1
2	SATA cable x 1
3	Audio cable x 1
4	5-pin ATX power in cable x 1
5	Two USB flat cable with bracket x 1
6	Floppy flat cable x 1
7	SATA power cable x 1
8	Two COM flat cable with bracket x 1
9	IDE flat cable x 1

It is recommended that you keep all the parts of the delivery package intact and store them in a safe/dry place for any unforeseen event requiring the return shipment of the product. In case you discover any missing and/or damaged items from the list of items, please contact your dealer immediately.

Chapter 3

Hardware Installation

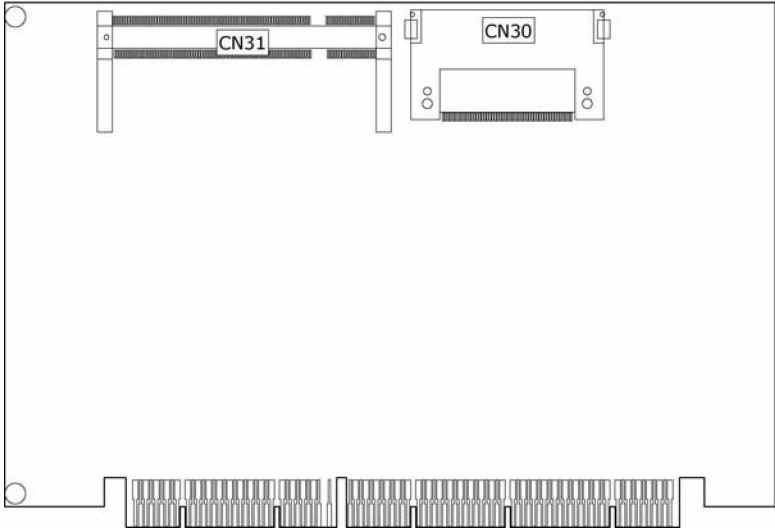
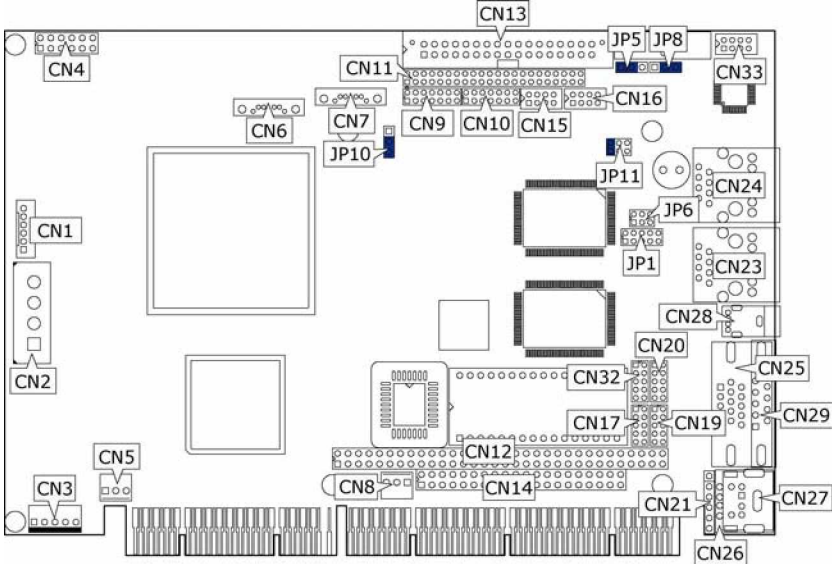
This chapter provides the information on how to install the hardware using the 3301284/3304284. This chapter also contains information related to jumper settings of switch, and watchdog timer selection etc.

3.1 Before Installation

After confirming your package contents, you are now ready to install your hardware. The following are important reminders and steps to take before you begin with your installation process.

1. Make sure that all jumper settings match their default settings and CMOS setup correctly. Refer to the sections on this chapter for the default settings of each jumper. (JP5, short 1-2)
2. Go through the connections of all external devices and make sure that they are installed properly and configured correctly within the CMOS setup. Refer to the sections on this chapter for the detailed information on the connectors.
3. Keep the manual and diskette in good condition for future reference and use.

3.2 Board Layout



3.3 Jumper List

Jumper	Default Setting	Setting	Page
JP1	COM4 Use RS-232 or RS-422/485 Select: RS-232	Open	15
JP5	Clear CMOS: <i>Normal Operation</i>	Short 1-2	17
JP8	CF Use Master/Slave Select: <i>Slave</i>	Short 1-2	25
JP10	Panel Voltage Select: +3.3V	Short 2-3	10
JP11	DOC Address Select: D000	Short 1-2	21

3.4 Connector List

Connector	Definition	Page
CN1	Inverter Power In Connector	10
CN2	4-pin Power In Connector	18
CN3	5-pin ATX Power In Connector	18
CN4	System Front Panel Control	19
CN5/CN8	Fan Power In Connector	18
CN6/CN7	Serial ATA Connector	13
CN9/CN10	LVDS Panel Connector	10
CN11	IDE Connector	12
CN12/CN14	PC/104 Bus 64-pin/40-pin Connector	22
CN13	Floppy Connector	14
CN15/CN16	Internal USB2.0 Port	17
CN19/CN17/CN20/CN32	COM 1~COM 4 Connector (5x2 header)	15
CN21	PS/2 6-pin Mini DIN KB/MS Connector	19
CN23/CN24	RJ-45 Connector	16
CN25	15-pin CRT Connector	10
CN28	External USB2.0 Port	17
CN27	6-pin KB/MS Connector	19
CN29	COM 1 (DB9)	15
CN30	CompactFlash Connector	25
CN31	SO-DDR2 Socket	10
CN33	MIC In/Line Out Connector	24
JP6	RS-422/485 Connector (3x2 header)	15

3.5 Configuring the CPU

The 3301284/3304284 embedded with ULV VIA V4 Eden 600MHz/800MHz/ 1GHz or VIA C7 1.0/1.5/2.0GHz CPU. User don't need to adjust the frequently and check speed of CPU.

3.6 System Memory

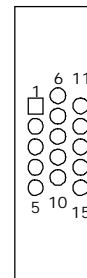
The 3301284/3304284 provides one SO-DDRII socket at locations CN31. The maximum capacity of the onboard memory is 1GB.

3.7 VGA Controller

The 3301284/3304284 provides two connection methods of a VGA device. CN25 offers a single standard CRT connector and CN9/CN10 are the LVDS interface connectors onboard reserved for flat panel installation.

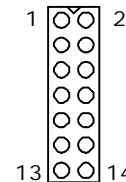
z CN25: 15-pin CRT Connector

PIN	Description	PIN	Description
1	Red	2	Green
3	Blue	4	N/C
5	GND	6	GND
7	GND	8	GND
9	N/C	10	GND
11	N/C	12	SDA
13	HSYNC	14	VSYNC
15	SCL		



z CN9/CN10: LVDS Interface Connector

PIN	Description	PIN	Description
1	V _{LCD}	2	V _{LCD}
3	GND	4	GND
5	Y0-/Z0-	6	Y0+/Z0+
7	Y1-/Z1-	8	Y1+/Z1+
9	Y2-/Z2-	10	Y2+/Z2+
11	CLK-	12	CLK+
13	Y3-/Z3-	14	Y3+/Z3+




NOTE: LVDS cable should be produced very carefully. Y0- & Y0+ have to be fabricated in twister pair (Y1- & Y1+, Y2- & Y2+ and so on) otherwise the signal won't be stable. Please set the proper voltage of your panel using JP10 before proceeding on installing it.

NOTE: If use CN9 only, it just supports 24-bit single channel LVDS panel; If you want to use 48-bit dual channel LVDS panel, please use CN9 and CN10 combined.

The 3301284/3304284 has an onboard jumper that selects the working voltage of the flat panel connected to the system. Jumper JP10 offers two voltage settings for the user.

● **JP10: Panel Voltage Select**

Options	Settings
+5V	Short 1-2
+3.3V (default)	Short 2-3



● **CN1: Inverter Power In Connector**

PIN	Description
1	N/C
2	N/C
3	+5V
4	BK_EN
5	ENVDD
6	GND

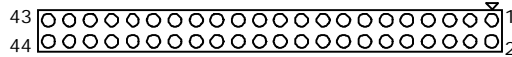


3.8 PCI E-IDE Drive Connector

CN11 is a standard 44-pin 2.0-pitch connector daisy-chain driver connector serves the PCI E-IDE drive provisions onboard the 3301284/3304284. A maximum of two ATA/33/66/100 IDE drives can be connected to the 3301284/3304284 via CN11.

Z CN11: IDE Connector

PIN	Description	PIN	Description
1	IDERST	2	GND
3	PDD7	4	PDD8
5	PDD6	6	PDD9
7	PDD5	8	PDD10
9	PDD4	10	PDD11
11	PDD3	12	PDD12
13	PDD2	14	PDD13
15	PDD1	16	PDD14
17	PDD0	18	PDD15
19	GND	20	N/C
21	PDDREQ	22	GND
23	IOW#	24	GND
25	IOR#	26	GND
27	PIORDY	28	470Ω with GND
29	PDDACK#	30	GND
31	IRQ14	32	N/C
33	PDA1	34	PD33/66
35	PDA0	36	PDA2
37	PDCS1#	38	PDCS3#
39	HDD Active	40	GND
41	VCC	42	VCC
43	GND	44	N/C

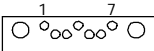


3.9 Serial ATA Connector

You can connect the Serial ATA device that provides you high speeds transfer rates (150MB/sec.). If you wish to use RAID function, please note that these two serial ATA connectors just support RAID0 and only compatible with WIN XP.

z CN6/CN7: Serial ATA Connector

PIN	Description
1	GND
2	SATATXP
3	SATATXN
4	GND
5	SATARXN
6	SATARXP
7	GND

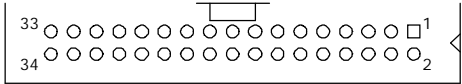


3.10 Floppy Disk Drive Connector

The 3301284/3304284 uses a standard 34-pin header connector, CN14, for floppy disk drive connection. A total of two FDD drives may be connected to CN13 at any given time.

z CN13: Floppy Connector

PIN	Description	PIN	Description
1	GND	2	DRVDEN0
3	GND	4	N/C
5	GND	6	DRVDEN1
7	GND	8	INDEX#
9	GND	10	MTR0#
11	GND	12	DS1#
13	GND	14	DS0#
15	GND	16	MTR1#
17	GND	18	DIR#
19	GND	20	STEP#
21	GND	22	WDATA#
23	GND	24	WGATE#
25	GND	26	TRAK00#
27	GND	28	WRTPRT#
29	GND	30	RDATA#
31	GND	32	HDSSEL#
33	GND	34	DSKCHG#



3.11 Serial Port Connectors

The 3301284/3304284 offers NS16C550 compatible UARTs with Read/ Receive 16-byte FIFO serial ports and four internal 10-pin headers and one RS-422/485 connector.

- CN29: COM 1 Connector (DB9)**

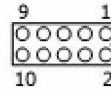
PIN	Description	PIN	Description
1	DCD	2	DSR
3	RXD	4	RTS
5	TXD	6	CTS
7	DTR	8	RI
9	GND		



NOTE: CN29 is optional connector, if use CN29, 15-pin CRT connector (CN25) will be disabled.

- CN19/CN17/CN20/CN32: COM 1~COM 4 Connector (5x2 Header)**

PIN	Description	PIN	Description
1	DCD	2	DSR
3	RXD	4	RTS
5	TXD	6	CTS
7	DTR	8	RI
9	GND	10	N/C



- JP6: RS-422/485 Connector (3x2 Header, COM4)**

PIN	Description	PIN	Description
1	TX-	2	TX+
3	RX+	4	RX-
5	GND	6	+5V



NOTE: The terminal resistance of RX & TX is set at 180Ω.

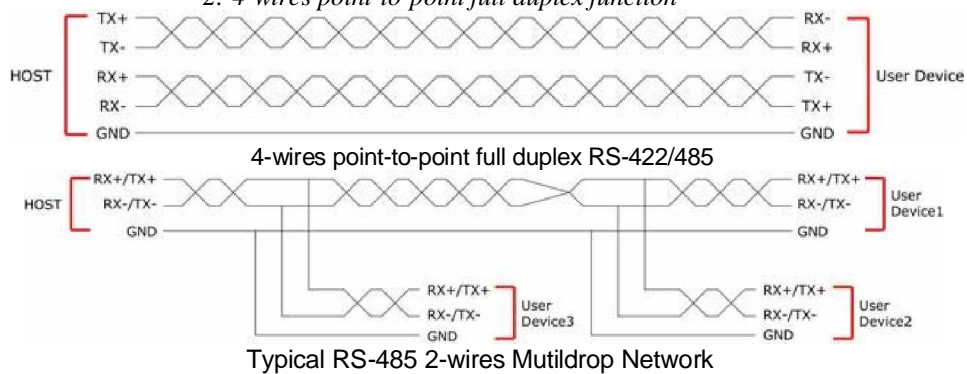
z JP1: COM 2 use RS-232 or RS-422/485 Select

Options	Settings
RS-232 (default)	Open
RS-485 by Auto (*1)	Short 1-2, 3-4, 5-7, 8-10
RS-485 by -RTS (*-1)	Short 1-2, 3-4, 7-9, 8-10
RS-422/485 Full Duplex (*2)	Short 1-2, 3-4, 6-8



NOTE: *1: 2-wires RS-485 function

*2: 4-wires point-to-point full duplex function



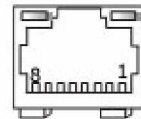
3.12 Ethernet Connector

The 3301284/3304284 provides two external RJ-45 interface connectors. Please refer to the following for its pin information.

When installs OS, this driver namely can automatically install. User does not need to renewal.

● CN23/CN24: RJ-45 Connector

PIN	Description
1	TX+
2	TX-
3	RX+
4	R/C GND
5	R/C GND
6	RX-
7	R/C GND
8	R/C GND

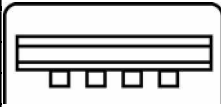


3.13 USB Connector

The 3301284/3304284 provides two 8-pin connectors, at location CN15/CN16, for 4 USB2.0 ports, and one external USB2.0 ports at CN28.


z CN28: External USB2.0 Port

PIN	Description
1	VCC
2	BD4-
3	BD4+
4	GND



z CN15/CN16: Internal USB2.0 Connector

PIN	Description	PIN	Description
1	VCC	2	VCC
3	BD0-/BD2-	4	BD1-/BD3-
5	BD0+/DB2+	6	BD1+/DB3+
7	GND	8	GND




3.14 CMOS Data Clear

The 3301284/3304284 has a Clear CMOS jumper on JP5.

z JP5: Clear CMOS

Options	Settings
Normal Operation (default)	Short 1-2
Clear CMOS	Short 2-3



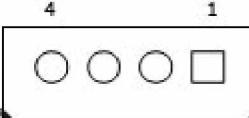
IMPORTANT: Before you turn on the power of your system, please set JP5 to Short 1-2 for normal operation.

3.15 Power and Fan Connectors

3301284/3304284 provides one 4-pin power in at CN2, one 5-pin ATX power in at CN3.

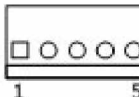
- **CN2: 4-pin Power In Connector**

PIN	Description
1	VCC
2	GND
3	GND
4	N/C



- **CN3: 5-pin ATX Power In Connector**


PIN	Description
1	GND
2	PS_ON
3	VCC
4	5VSB
5	VCC



NOTE: If you want to use AT Power Function, please set CN3 short 4-5.

- **CN5/CN8: Fan Power In Connector**

PIN	Description
1	GND
2	+5V
3	N/C



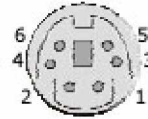
Connector CN5/CN8 onboard 3301284/3304284 is a 3-pin fan power output connector. And 3301284/3304284 supports +5V Fan only.

3.16 Keyboard/Mouse Connectors

The 3301284/3304284 offers two possibilities for keyboard/mouse connections. The connections are via *CN21* for an external PS/2 type keyboard/mouse or via *CN27* for an internal 6-pin cable converter to a keyboard/mouse.

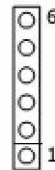
- **CN21: PS/2 6-pin Mini DIN Keyboard/Mouse Connector**

PIN	Description
1	Keyboard Data
2	Mouse Data
3	GND
4	+5V
5	Keyboard Clock
6	Mouse Clock



- **CN27: 6-pin Keyboard/Mouse Connector**

PIN	Description
1	Keyboard Data
2	Mouse Data
3	GND
4	+5V
5	Keyboard Clock
6	Mouse Clock



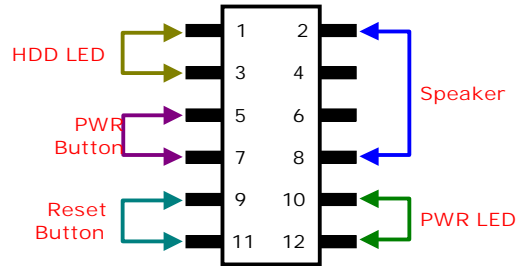
3.17 System Front Panel Control

The 3301284/3304284 has front panel control at location *CN4* that indicates the power-on status.

- z **CN4: System Front Panel Control**

PIN	Description	PIN	Description
1	VCC	2	Speaker
3	HDD LED	4	N/C
5	PWR Button	6	GND
7	GND	8	GND
9	Reset Switch	10	+3.3V
11	GND	12	PWR LED

Connector CN4 Orientation



3.18 Watchdog Timer

Once the Enable cycle is active a Refresh cycle is requested before the time-out period. This restarts counting of the WDT period. When the time counting goes over the period preset of WDT, it will assume that the program operation is abnormal. A system reset signal will restart when such error happens.

The following sample programs show how to enable, disable and refresh the watchdog timer:

```

;-----
;Enter the WDT function mode, interruptible double-write
;-----
MOV     DX, 2EH
MOV     AL, 87H
OUT     DX, AL
OUT     DX, AL
MOV     DX, 2EH
MOV     AL, 07H
OUT     DX, AL
MOV     DX, 2FH
MOV     AL, 08H
OUT     DX, AL
MOV     DX, 2EH
MOV     AL, F5H
OUT     DX, AL           ;select CRFO
MOV     DX, 2FH
MOV     AL, 80H
OUT     DX, AL
MOV     DX, 2EH
MOV     AL, F7H
OUT     DX, AL
MOV     DX, 2FH

MOV     AL, 00H
OUT     DX, AL
MOV     DX, 2EH
MOV     AL, F6H
OUT     DX, AL

```



```

MOV    DX, 2FH
MOV    AL, 00H      ; *00H=Disabled
OUT    DX, AL
-----
;Exit extended function mode
-----
MOV    DX, 2EH
MOV    AL, AAH
OUT    DX, AL

```

User can also use AL, 00H's defined time for reset purposes, e.g.00H for Disable, 01H = 1sec, 02H=2sec.....FFH=255sec.

3.19 DiskOnChip™ Address Setting

The DOC function allows the system to boot or operate without a FDD or a HDD. DOC modules may be formatted as drive C or A. With DOC, user may also execute DOS commands such as FORMAT, SYS, COPY, XCOPY, DISCOPY and DISKCOMP etc.

The U13 location onboard the 3301284/3304284 is the DOC module socket. Jumper *JP11* assigns the address setting of the installed module. Setting the 4-pins of *JP11* allows you to select the starting memory devices in the system, please set both at different memory address mapping to avoid the mapping area conflicts.

z JP11: DOC Address Select

Options	Settings
D000 (default)	Short 1-2
D800	Short 3-4

2	6
1	5

3.20 PC/104 Connectors

The PC/104 expansion bus offers provisions to connect all types of PC/104 modules. With the PC/104 bus being known as the new generation of industrial embedded 16-bit PC standard bus, thousands of PC/104 modules from multiple vendors can be easily installed onboard. The detailed pin assignment of the PC/104 expansion bus connectors CN14 and CN12 are listed on the following tables:

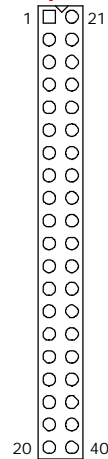
NOTE1: *The PC/104 connector allows direct plugging or stack-through piling of PC/104 modules without requiring the PC/104 mounting kit.*

NOTE2: *PC/104 Bus connector only for 16-bit ISA Bus, DO NOT support DMA mode.*

z CN14: PC/104 40-pin Connector

PIN	Description	PIN	Description
1	GND	21	GND
2	-MEMCS16	22	-SBHE
3	-IOSC16	23	LA23
4	IRQ10	24	LA22
5	IRQ11	25	LA21
6	IRQ12	26	LA20
7	IRQ15	27	LA19
8	IRQ14	28	LA18
9	-DACK0	29	LA17
10	DRQ0	30	-MEMR
11	-DACK5	31	-MEMW
12	DRQ5	32	SD8
13	-DACK6	33	SD9
14	DRQ6	34	SD10
15	-DACK7	35	SD11
16	DRQ7	36	SD12
17	+5V	37	SD13
18	-MASTER	38	SD14
19	GND	39	SD15
20	GND	40	N/C

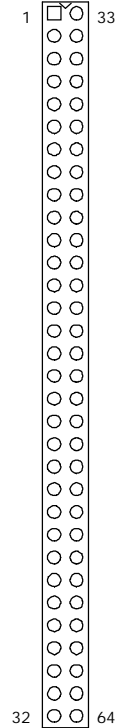
Connector diagram rotated 90 degrees clockwise from original position



z CN12: PC/104 64-pin Connector

PIN	Description	PIN	Description
1	-IOCHECK	33	GND
2	SD7	34	RESETDRV
3	SD6	35	+5V
4	SD5	36	IRQ9
5	SD4	37	-5V
6	SD3	38	DRQ2
7	SD2	39	-12V
8	SD1	40	NOW-
9	SD0	41	+12V
10	IOCHRDY	42	GND
11	AEN	43	-SMEMW
12	SA19	44	-SMEMR
13	SA18	45	-IOW
14	SA17	46	-IOR
15	SA16	47	-DACK3
16	SA15	48	DRQ3
17	SA14	49	-DACK1
18	SA13	50	DRQ1
19	SA12	51	-REFRESH
20	SA11	52	SYSCLK
21	SA10	53	IRQ7
22	SA9	54	IRQ6
23	SA8	55	IRQ5
24	SA7	56	IRQ4
25	SA6	57	IRQ3
26	SA5	58	-DACK2
27	SA4	59	TC
28	SA3	60	BALE
29	SA2	61	+5V
30	SA1	62	OSC
31	SA0	63	N/C
32	GND	64	GND

Connector diagram rotated 90 degrees clockwise from original position



3.21 Audio Connectors

The 3301284/3304284 has an onboard VIA VT1708A High Definition Audio CODEC. The following tables list the pin assignments of the Line In/Audio Out connector.

- ” 4 stereo DACs support 24-bit, 192KHz samples
- ” DAC with 100dB S/N Ratio
- ” 2 stereo ADCs support 24-bit, 192KHz samples
- ” ADC with 95dB S/N ratio
- ” 8-channels of DAC support 16/20/24-bit PCM format for 7.1 audio solution

Z CN33: MIC In/Line Out Connector

PIN	Description	PIN	Description
1	AOUTL	2	AOUTR
3	GND	4	GND
5	MIC IN L	6	MIC IN R
7	GND	8	GND



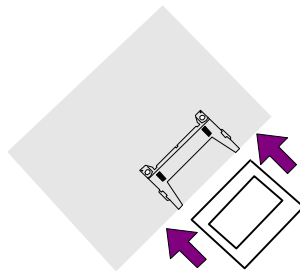
3.22 CompactFlash™ Connector

The 3301284/3304284 also offers a Type I/II CompactFlash™ connector which is IDE interface located at the solder side of the board. The designated CN30 connector, once soldered with an adapter, can hold CompactFlash™ cards of various sizes. Please turn off the power before inserting the CF card.

z CN30: CompactFlash™ Connector

PIN	Description	PIN	Description
1	GND	2	IDE_PDD3
3	IDE_PDD4	4	IDE_PDD5
5	IDE_PDD6	6	IDE_PDD7
7	IDE_PDCS1#	8	GND
9	GND	10	GND
11	GND	12	GND
13	+3.3V	14	GND
15	GND	16	GND
17	GND	18	IDE_PDA2
19	IDE_PDA1	20	IDE_PDA0
21	IDE_PDD0	22	IDE_PDD1
23	IDE_PDD2	24	GND
25	GND	26	GND
27	IDE_PDD11	28	IDE_PDD12
29	IDE_PDD13	30	IDE_PDD14
31	IDE_PDD15	32	IDE_PDCS3#
33	GND	34	IDE_PDIO#
35	IDE_PDIO#	36	+3.3V
37	INT_IRQ14	38	+3.3V
39	+3.3V	40	N/C
41	RESET#	42	IDE_PDIO#
43	CF_PDERQ	44	CF_REGB
45	IDE_ACTP#	46	DETECT
47	IDE_PDD8	48	IDE_PDD9
49	IDE_PDD10	50	GND

Inserting a CompactFlash™ card into the adapter is not a difficult task. The socket and card are both keyed and there is only one direction for the card to be completely inserted. Refer to the diagram on the following page for the traditional way of inserting the card.



z JP8: CF Use Master/Slave Select

Options	Setting
Master	Short 2-3
Slave (default)	Short 1-2



NOTE: *When use CF card, IDE device function will be disabled.*

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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