



Quick Installation Guide

3301890

Package List

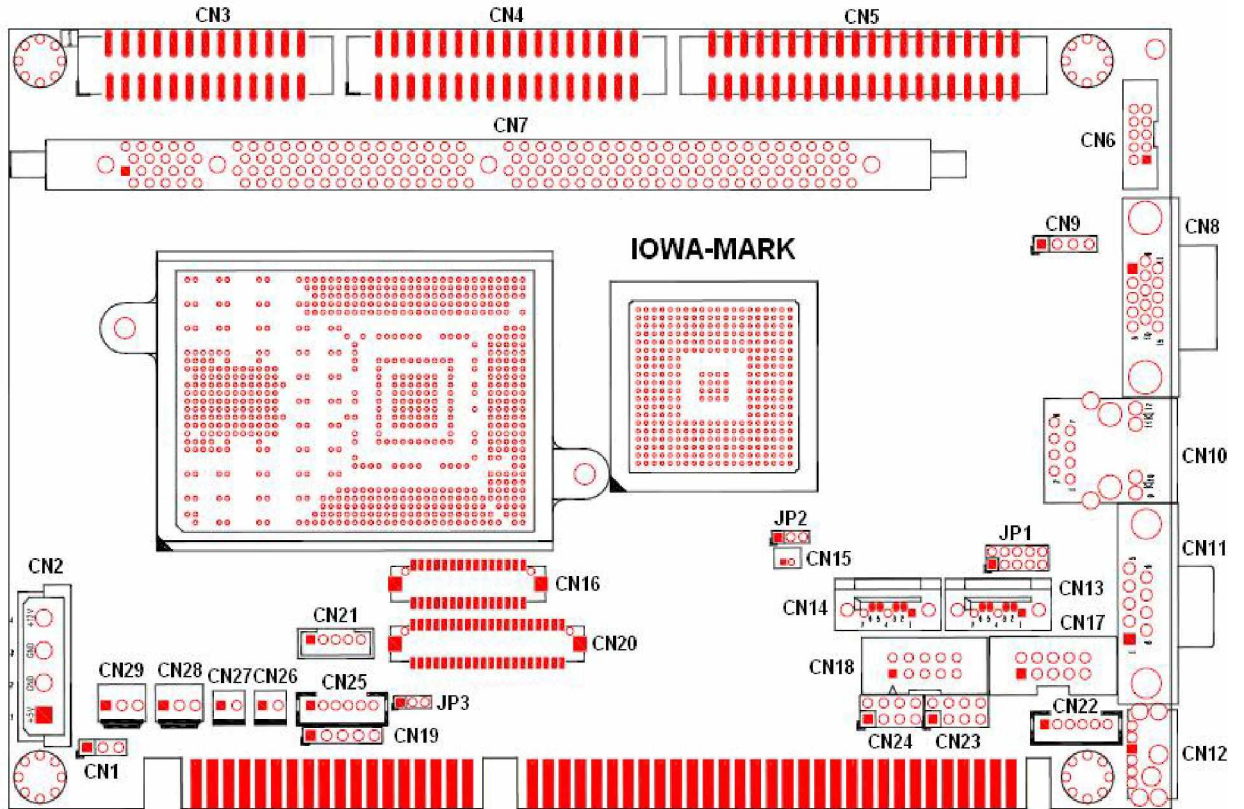
3301890 package includes the following items:

- z 1 x 3301890 single board computer
- z 1 x mini jumper pack
- z 1 x ATA66/100 flat cable
- z 2 x cable
- z 1 x single RS232 cable
- z 1 x Audio cable
- z 1 x SATA Power cable
- z 1 x KB/PS2 Mouse Y cable
- z 1 x Utility CD
- z 1 x QIG

Specifications

- z CPU: VIA MARK 533/800MHz
- z System Chipset: MARK+82C686B
- z BIOS: Award BIOS
- z System Memory:
 - 1x 168-pin PC100/133MHz up to 512MB
 - On Board 128MB SDRAM
- z Ethernet: RTL8100C for 10/100Mbps
- z I/O Interface:
 - 4x USB 1.1
 - 1x IDE
 - 1x FDD
 - LPT
 - 2x SATA-150 with ALI M5283 RAID 0,1 function support.
 - 2x RS232
 - 1x PS2 Mini DIMM
- z Audio: Realtek ALC655 with AC'97 codec
- z Display: CRT intergrated in VIA MARK 24 bits TFT
 - LVDS: Dual channel 18 bit LVDS
- z SSD: CF Type II
- z WDT: Software Programmable supports 1-255 sec. System reset, by ICP6629
- z Power Supply: 5V, +12V, ATX support
- z Power Consumption:
 - [+5V@2.99A](#), [+12V@0.09A](#)(VIA MARK 800MHz, On board 128MB+ PC133 128MB)
 - [+5V@2.81A](#), [+12V@0.04A](#)(VIA MARK 533MHz, On board 128MB+ PC133 128MB)
- z Temperature: Operation:0~60°C(32~140°F)
- z Humidity: Operation:5%~95% non-condensing
- z Dimension: 165mm x 115mm
- z Weight: GW: 1.0Kg

Board Layout: Jumper and Connector Locations



CN20:TFT LCD Connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	VCC_FP	2	VCC_FP
3	GROUND	4	GROUND
5	VCC_FP	6	VCC_FP
7	SMB_DATA	8	GROUND
9	FPD0	10	FPD1
11	FPD2	12	FPD3
13	FPD4	14	FPD5
15	FPD6	16	FPD7
17	FPD8	18	FPD9
19	FPD10	20	FPD11
21	FPD12	22	FPD13
23	FPD14	24	FPD15
25	FPD16	26	FPD17
27	FPD18	28	FPD19
29	FPD20	30	FPD21
31	FPD22	32	FPD23
33	GROUND	34	GROUND
35	FPCLK	36	FPVS
37	FPDEN	38	FPHS
39	SMB_CLK	40	ENVEE

CN4:Floppy Connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	GROUND	2	DEN0
3	GROUND	4	N/C
5	GROUND	6	DEN1
7	GROUND	8	INDEX-
9	GROUND	10	MTR0-
11	GROUND	12	DISKSEL1-
13	GROUND	14	DISKSEL0-
15	GROUND	16	MTR1-
17	GROUND	18	DIR-
19	GROUND	20	STEP-
21	GROUND	22	WDATA-
23	GROUND	24	WGATE-
25	GROUND	26	TRAK0-
27	GROUND	28	WRTPRT-
29	GROUND	30	RDATA-
31	GROUND	32	HDSEL-
33	GROUND	34	DSKCHG-

Ordering Information:

- § 3301890A
- § ISA CPU Card VIA MARK 533MHz, CRT/LCD, Dual LAN,Audio with on board 128MB Memory
- § 3301890B
 - ISA CPU Card VIA MARK 533MHz, CRT/LCD, Dual LAN,SATA ,Audio with on board 128MB Memory
- § 3301890C
 - ISA CPU Card VIA MARK 800MHz, CRT/LCD, Dual LAN,Audio with on board 128MB Memory
- § 3301890D
 - ISA CPU Card VIA MARK 800MHz, CRT/LCD, Dual LAN,SATA ,Audio with on board 128MB Memory
- § Single RS232 cable
- § FDD cable
- § LPT cable

Jumpers setting and Connectors

CN1: Extenal: -VCC Power Connector

JP2: Clear CMOS Setup	
PIN	DESCRIPTION
Short1-2(Default)*	Keep CMOS Setup(Normal Operation)
Short2-3	Clear CMOS Setup

CN6: Audio Connector (Line out, Line in & MIC in)			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	Line Out (Right)	2	Line In (Right)
3	GROUND	4	GROUND
5	Line Out (Left)	6	Line In (Left)
7	GROUND	8	GROUND
9	MIC In	10	NC

JP3: Power +3.3V & +5V Select	
PIN	DESCRIPTION
1-2(Default)*	+3.3V
2-3	+5V

CN24: Internal USB 1.1 Connector (2 ports)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	VCC	2	GROUND
3	DATA1-	4	DATA2+
5	DATA1+	6	DATA2-
7	GROUND	8	VCC

CN28: CPU Fan Connector

PIN	DESCRIPTION
1	Ground
2	+5V
3	Rotation Signal

CN5: IDE Connector (40pin 2.54mm)			
PIN	DESCRIPTION	PIN	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	N/C
21	DRQ	22	GROUND
23	IOW#	24	GROUND
25	IOR#	26	GROUND
27	CHRDY	28	(PULL LOW TO GND)
29	DACK#	30	GROUND
31	INTERRUPT	32	N/C
33	SA1	34	N/C
35	SA0	36	SA2
37	HDC CS1#	38	HDC CS3#
39	HDD ACTIVE#	40	GROUND

CN19: IrDA Connector	
PIN	DESCRIPTION
1	VCC
2	N/C
3	IR-RX
4	Ground
5	IR-TX

CN2: Power Connector	
PIN	DESCRIPTION
1	+5v
2	Ground
3	Ground
4	+12v

CN29:PS-ON Connector	
PIN	DESCRIPTION
1	Ground
2	PS-ON
3	+5V Standby

CN16: LVDS LCD Connector			
PIN	DESCRIPTION	PIN	DESCRIPTION
1	GROUND	2	GROUND
3	LVDSA_Y0+	4	LVDSA_Y0-
5	LVDSA_Y1+	6	LVDSA_Y1-
7	LVDSA_Y2+	8	LVDSA_Y2-
9	LVDSA_CLK+	10	LVDSA_CLK-
11	N/C	12	N/C
13	GROUND	14	GROUND
15	LVDSB_Y0+	16	LVDSB_Y0-
17	LVDSB_Y1+	18	LVDSB_Y1-
19	LVDSB_Y2+	20	LVDSB_Y2-
21	LVDSB_CLK+	22	LVDSB_CLK-
23	N/C	24	N/C
25	GROUND	26	GROUND

CN9: Audio CD In Connector	
PIN	DESCRIPTION
1	CD SIGNAL (Left)
2	GROUND
3	GROUND
4	CD SIGNAL (Right)

CN22: 6-pin Pin Header Keyboard/Mouse Connector	
PIN	DESCRIPTION
1	+5V
2	MOUSE DATA
3	MOUSE CLOCK
4	KEYBOARD DATA
5	KEYBOARD CLOCK
6	GROUND

CN3: Parallel Port Connector

PIN	DESCRIPTION	PIN	DESCRIPTION
1	STROBE#	2	AUTO FORM FEED #
3	DATA 0	4	ERROR#
5	DATA 1	6	INITIALIZE
7	DATA 2	8	PRINTER SELECT LN#
9	DATA 3	10	GROUND
11	DATA 4	12	GROUND
13	DATA 5	14	GROUND
15	DATA 6	16	GROUND
17	DATA 7	18	GROUND
19	ACKNOWLEDGE	20	GROUND
21	BUSY	22	GROUND
23	PAPER EMPTY	24	GROUND
25	PRINTER SELECT	26	N/C

CN21: Inverter Power Connector

PIN	DESCRIPTION
1	Ground
2	Ground
3	+12V
4	Ground
5	LCD Enable

CN26: 2 Pin Reset button Switch

PIN	DESCRIPTION
1	RST-BTN
2	Ground

CN12: Keyboard / Mouse Connector

PIN	DESCRIPTION
1	KEYBOARD DATA
2	MOUSE DATA
3	GROUND
4	+5V
5	KEYBOARD CLOCK
6	MOUSE CLOCK

CN17: Internal Serial Port Connectors

PIN	DESCRIPTION
1	DATA CARRIER DETECT (DCD)
2	DATA SET READY (DSR)
3	RECEIVE DATA (RXD)
4	REQUEST TO SEND (RTS)
5	TRANSMIT DATA (TXD)
6	CLEAR TO SEND (CTS)
7	DATA TERMINAL READY (DTR)
8	RING INDICATOR (RI)
9	GROUND (GND)
10	GROUND (GND)

CN18: 10-pin Digital I/O Connector

PIN	DESCRIPTION	PIN	DESCRIPTION
1	GROUND	2	+5V
3	OUTPUT 0	4	OUTPUT 1
5	OUTPUT 2	6	OUTPUT 3
7	INPUT 0	8	INPUT 1
9	INPUT 2	10	INPUT 3

CN27: 2 Pin Power button Switch

PIN	DESCRIPTION
1	PWR-BTN
2	Ground

CN23: Internal USB 1.1 Connector (2 ports)

PIN	DESCRIPTION	PIN	DESCRIPTION
1	VCC	2	GROUND
3	DATA3-	4	DATA4+
5	DATA3+	6	DATA4-
7	GROUND	8	VCC

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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