



**Quick Installation Guide**

3307567

**Version 1.0**

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## Packing list

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

1. 1 x 3307567 Half Size Board
2. 1 x Quick Installation Guide
3. 1 x CD-ROM (for Driver used)

## Cable Kit

3307567 (Standard Version) Cable Kit ( 1204090 ) contains the followings:

### Content

1. 1 x USB 2 port Cable
2. 1 x IDE Cable
3. 1 x FDD Cable
4. 1 x KB-MS Cable
5. 1 x Parallel Cable
6. 3 x COM Cable

## Ordering Information

3307567

Half size ISA STPC Atlas 133MHz SBC with PC/104, 32MB SDRAM, CRT/LCD and LAN

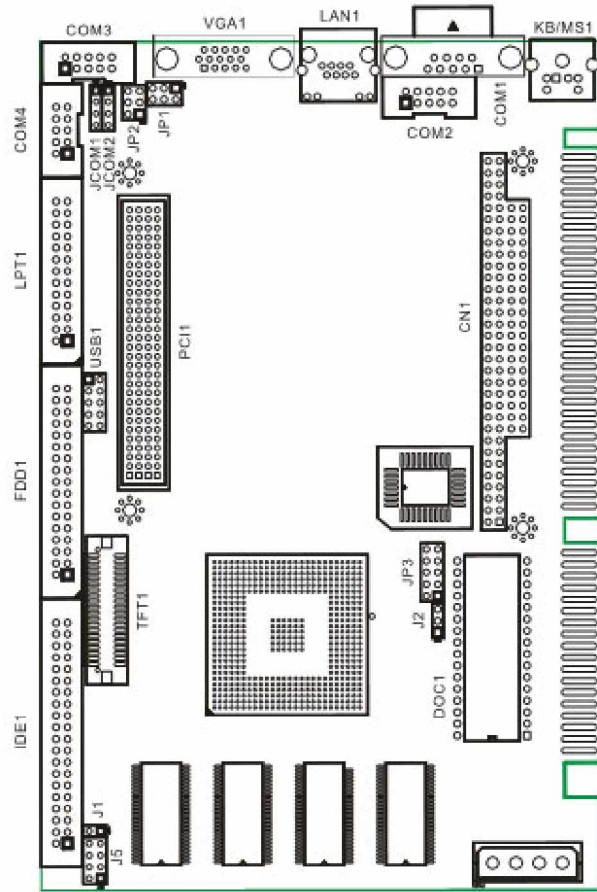
### Note:

BOX header version and all other specifications are available up on OEM request

## Engineering Specification

<b>Product Name</b>	<b>3307567</b>
Form Factor	Half Size SBC (185 x 122mm)
Processor	STPC Atlas CPU 133MHz
Chipset	STPC Atlas SoC
System Memory	On board SDRAM 32MB (Optional: 64MB Max)
Graphics Controller	Integrated on STPC Atlas Display memory: up to 4MByte UMA Video RAM
Graphics Interface	CRT: support up to 1280 X 1024 LCD: support 9/12/18 bit TTL up to 1024 x 768
Ethernet	Chipset: RealTek 8100CL 10/100 Base-T Fast Ethernet LAN Connector: available with RJ-45 Connector
I/O	Serial ports: 2 x RS232/422/485 (COM 2, 4), 2 x RS232 (COM1, 3). Parallel ports: Supports SPP/ EPP/ ECP mode USB: 2 x USB 1.1 Ports
Flash Disk	Compact Flash Type I/II support DiskOnChip 2000
Expansion Bus	1 x 16 bit ISA-based PC/104 Interface; 1 x 32 bit PCI-based PC/104-Plus Interface (optional)
Operation Temperature	-25°C ~ 70°C (Optional: -40 to 80°C)
Operating Humidity	0% to 90%

## Component Location



## 3307567 REV1.0 Pin Assignment and Description

### Jumpers Setting

1). Serial Port mode setting(JP1/JP2):

Mode	JP1/JP2
232	1-2
422	3-4
485	5-6



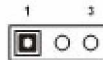
2). Compact Flash Card setting(J1):

Mode	JP1/JP2
Master	Short
Slave	Open



3). CMOS setting(J2):

CMOS	J2
Keep	1-2
Clear	2-3



4). DOC Address Setting(JP3):

Address	JP3	
C8000-C9FFF	1-2	7-8
CC000-CDFFF	1-2	9-10
D0000-D1FFF	3-4	7-8
D4000-D5FFF	3-4	9-10
D8000-D9FFF	5-6	7-8
DC000-DDFFF	5-6	9-10



## Connectors

### 1). RS-232 Serial Port(COM1):



Type: 9Pin D-SUB Connector

Pin	Signal	Pin	Signal
1	DCD#	2	SINA
3	SOUTA	4	DTR#
5	GND	6	DSR#
7	RTS#	8	CTS#
9	RI#		

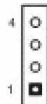
### 2). RS-232 Serial Port(COM2/COM3/COM4):



Type: onboard 2×5-pin header  
(Pin pitch: 2.54mm)

Pin	Signal	Pin	Signal
1	DCD#	2	SINA
3	SOUTA	4	DTR#
5	GND	6	DSR#
7	RTS#	8	CTS#
9	RI#	10	GND

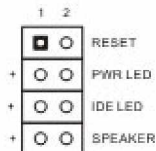
### 3). RS-422/485 Serial Port(JCOM1/JCOM2):



Type: onboard 1×4 Pin header  
(Pin pitch: 2.54mm)

JCOM1/JCOM2	422 Signal	485 Signal
1	TX+	RTX+
2	TX-	RTX-
3	RX+	NC
4	RX-	NC

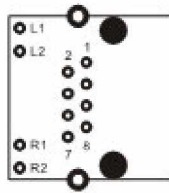
### 4). Front Panel Connector(J5):



Type: onboard 2×4-pin header  
(Pin pitch: 2.54mm)

J5-Pin1	J5-Pin2
Reset	Reset-
Power LED+	Power LED-
IDE LED+	IDE LED-
Speaker+	Speaker

5). Fast Ethernet Connector (LAN1):

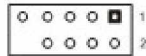


Type: RJ45 Connector

Pin	Signal	Pin	Signal
1	TX+	2	TX-
3	RX+	4	D2+
5	D2-	6	RX-
7	D3+	8	D3-
L1	LINK-	L2	LINK+
R1	ACT-	R2	ACT+

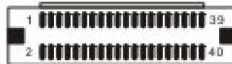
6). USB Connector (USB1):

Type: onboard 2×5-1 Pin header (Pin pitch: 2.54mm)



Pin	Signal	Pin	Signal
1	+5V	2	+5V
3	USB1-	4	USB1+
5	USB2-	6	USB2+
7	GND	8	GND
9	GND	10	FLAG

7). TFT LCD Connector (TFT1):



Type: DF13 40Pin Header (Pin pitch: 1.27mm)

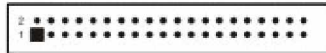
Pin	Signal	Pin	Signal
1	+12V	2	+12V
3	GND	4	GND
5	+5V	6	+5V
7	EnVCC	8	EnVDD
9	+3.3V	10	NC
11	B0	12	B1
13	B2	14	B3
15	B4	16	B5
17	GND	18	NC
19	G0	20	G1
21	G2	22	G3
23	G4	24	G5
25	GND	26	NC
27	R0	28	R1
29	R2	30	R3
31	R4	32	R5
33	GND	34	TFTDCLK
35	GND	36	TFTFRAME
37	TFTLINE	38	PWM
39	TFTDE	40	+3.3V

**Description:**

- EnVDD--Enable VDD of Flat Panel
- EnVCC-- Enable VCC of Flat Panel
- PWM--PWM Back-Light Control
- TFTDCLK--Dot clock for the Flat Panel
- TFTFRAME--Vertical Sync
- TFTLINE--Horizontal Sync
- TFTDE--Data Enable

8). IDE Connector (IDE1):

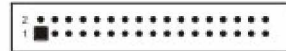
Type: onboard 2×20 Box header (Pin pitch: 2.54mm)



Pin	Signal	Pin	Signal
1	IDE RESET#	2	GND
3	DATA7	4	DATA8
5	DATA6	6	DATA9
7	DATA5	8	DATA10
9	DATA4	10	DATA11
11	DATA3	12	TATA12
13	DATA2	14	DATA13
15	DATA1	16	DATA14
17	DATA0	18	DATA15
19	GND	20	N/C
21	REQ	22	GND
23	IO WRITE#	24	GND
25	IO READ#	26	GND
27	IO READY#	28	IDESEL
29	DACK#	30	GND
31	IRQ4	32	N/C
33	ADDR1	34	ATA66 DETECT
35	ADDR0	36	ADDR2
37	CS#1	38	CS#3
39	IDEACTP#	40	GND

9). FDC Connector (FDD1):

Supports SPP, BPP, EPP, ECP mode



Type: onboard 2×17 Box header (Pin pitch: 2.54mm)

Pin	Signal	Pin	Signal	Description
1	GND	2	DRV DEN0	Drive Density Select bit 0
3	GND	4	NC	
5	GND	6	DRV DEN1	Drive Density Select bit 0
7	GND	8	INDEX#	Index pulse
9	GND	10	MOA#	Motor A On
11	GND	12	DSB#	Drive Select B
13	GND	14	DSA#	Drive Select A
15	GND	16	MOB#	Motor B On
17	GND	18	DIR#	Direction of the head step motor
19	GND	20	STEP#	Step output pulses
21	GND	22	WD#	Write data
23	GND	24	WE#	Write enable
25	GND	26	TRAK0#	Track 0
27	GND	28	WP#	Write protected
29	NC	30	RDATA#	Read data
31	GND	32	HEAD#	Head select
33	NC	34	DSKCHG#	Disk change

10). Parallel Port Connector(LPT1):

Type: onboard 2×13 Box header (Pin pitch: 2.54mm)



Pin	Signal	Pin	Signal
1	STB#	2	AFD#
3	PD0	4	ERR#
5	PD1	6	INIT#
7	PD2	8	SLIN#
9	PD3	10	GND
11	PD4	12	GND
13	PD5	14	GND
15	PD6	16	GND
17	PD7	18	GND
19	ACK#	20	GND
21	BUSY	22	GND
23	PE	24	GND
25	SLCT	26	NC

11). Keyboard/Mouse Connector (KB/MS1):

Type: 6Pin Mini DIN connector



Pin	Signal
1	KBDATA
2	MSDATA
3	GND
4	VCC
5	KBCLK
6	MSCLK

12). Power Connector (PWR1):



Pin	Signal
1	+5V
2	GND
3	GND
4	+12V

13). PC104 Slot (CN1):

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
A1	IOCHCK#	B1	GND	C0	GND	D0	GND
A2	SD7	B2	RESETDRV	C1	SBHE#	D1	MEMCS16#
A3	SD6	B3	+5V	C2	SA23	D2	IOCS16#
A4	SD5	B4	IRQ9	C3	SA22	D3	IRQ10
A5	SD4	B5	-5V	C4	SA21	D4	IRQ11
A6	SD3	B6	DRQ2	C5	SA20	D5	IRQ12
A7	SD2	B7	-12V	C6	SA19	D6	IRQ15
A8	SD1	B8	ZWS	C7	SA18	D7	IRQ14
A9	SD0	B9	+12V	C8	SA17	D8	DACK0#
A10	IOCHRDY	B10	GND	C9	MEMR#	D9	DRQ0
A11	AEN	B11	SMEMW#	C10	MEMW#	D10	DACK5#
A12	SA19	B12	SMEMR#	C11	SD8	D11	DRQ5
A13	SA18	B13	IOW#	C12	SD9	D12	DACK6#
A14	SA17	B14	IOR#	C13	SD10	D13	DRQ6
A15	SA16	B15	DACK3#	C14	SD11	D14	DACK7#
A16	SA15	B16	DRQ3	C15	SD12	D15	DRQ7
A17	SA14	B17	DACK1#	C16	SD13	D16	+5V
A18	SA13	B18	DRQ1	C17	SD14	D17	MASTER#
A19	SA12	B19	REF#	C18	SD15	D18	GND
A20	SA11	B20	SYSCLK	C19	GND	D19	GND
A21	SA10	B21	IRQ7				
A22	SA9	B22	IRQ6				
A23	SA8	B23	IRQ5				
A24	SA7	B24	IRQ4				
A25	SA6	B25	IRQ4				
A26	SA5	B26	DACK2#				
A27	SA4	B27	TC				
A28	SA3	B28	BALE				
A29	SA2	B29	+5V				
A30	SA1	B30	OSC				
A31	SA0	B31	GND				
A32	GND	B32	GND				

14). PC104 Plus Slot (PCI1) (Optional):

Pin	Row A	Row B	Row C	Row D
1	GND	Reserved	+5	AD00
2	VI/O	AD02	AD01	+5V
3	AD05	GND	AD04	AD03
4	C/BE0#	AD07	GND	AD06
5	GND	AD09	AD08	GND
6	AD11	VI/O	AD10	M66EN(GND)
7	AD14	AD13	GND	AD12
8	+3.3V	C/BE1#	AD15	+3.3V
9	SERR#	GND	Reserved	PAR
10	GND	PERR#	+3.3V	Reserved
11	STOP#	+3.3V	LOCK#	GND
12	+3.3V	TRDY#	GND	DEVSEL#
13	FRAME#	GND	IRDY#	+3.3V
14	GND	AD16	+3.3V	C/BE2#
15	AD18	+3.3V	AD17	GND
16	AD21	AD20	GND	AD19
17	+3.3V	AD23	AD22	+3.3V
18	IDSEL0	GND	IDSEL1	IDSEL2(NC)
19	AD24	C/BE3#	VI/O	IDSEL3(NC)
20	GND	AD26	AD25	GND
21	AD29	+5V	AD28	AD27
22	+5V	AD30	GND	AD31
23	REQ0#	GND	REQ1#	VI/O
24	GND	REQ2#(NC)	+5V	GNT0#
25	GNT1#	VI/O	GNT2#(NC)	GND
26	+5V	CLK0	GND	CLK1
27	CLK2(NC)	+5V	CLK3(NC)	GND
28	GND	INTD#(NC)	+5V	RST#
29	+12V	INTA#	INTB#	INTC#(NC)
30	-12V	REQ3#(NC)	GNT3#(NC)	GND

NOTE: This PC104 Plus Slot can only support 2 PCI master devices.

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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