



## Fanless VESA Mini PC

TC-261	200MHz Mini PC, 1x LAN
TC-261H	200MHz Mini PC, 1x LAN, HDD mount
RB-261	200MHz Mini PC, 1x LAN, miniPCI
RB-262	200MHz Mini PC, 1x LAN, miniPCI, 2xCOM



User's Manual

## SAFETY INFORMATION

### WARNING

- Do not expose your computer to rain or moisture, in order to prevent shock and fire hazard.
- Never install your computer in wet locations.
- Do not open the cabinet to avoid electrical shock. Refer to your nearest dealer for qualified personnel servicing.
- Never touch un-insulated terminals or wire unless your power adaptor and display monitor are disconnected.
- Locate your computer as close as possible to the socket outline for easy access and to avoid force caused by entangling of your arms with surrounding cables from the computer.
- When using Mini PC, avoid using or installing the modem to the serial port during a storm or a lightning.
- Do not use the modem or a telephone to report a gas leak in the vicinity of the leak.

## REGULATORY

### FCC CLASS A NOTE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference in which case the user will be required to correct the interference at his own expense. Testing was done with shielded cables. Therefore, in order to comply with the FCC regulations, you must use shielded cables with your installation.

### WARNING

This product Complies with EN55022 Class A. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference - causing equipment standard entitled "Digital Apparatus", ICES-003 of the Department of Communications.

### MANUFACTURER'S DECLARATION OF CONFORMITY

This equipment has been tested and found to comply with the requirements of European Community Council Directives 89/336/EEC and 73/23/EEC relating to electromagnetic compatibility and product safety respectively.

### ATTENTION

This product has been designed and certified to comply with certain regulatory requirements pertaining to Information Technology Equipment. This product has not been designed for use as a medical device. Without limitation of the foregoing, this product is not intended and has not been certified for use in a hospital or clinical environment to diagnose, treat, or monitor patients under medical supervision, and is not intended and has not been certified to make physical or electrical contact with patients, nor to transfer energy to or from patients and/or to detect such energy transfer to or from patients.

## PREFACE

### TC-261/TC-261H/RB-261/RB-262 : MINIPC VESA COMPUTER



Revolutionary device that is especially designed for limited physical space and temperature concerns. No matter you are in a jammed office, a crowded place, or public transportation, it can be easily integrated with a VESA LCD to bring you VESA PC access at any time.

It can attach to any VESA mounting fixture, allowing it to be securely mounted onto desks, walls, or buildings, and thereby optimizes your work area. It can also attach directly to any size LCD for a mobile system for the use at trade shows, presentations, promotions, etc. Unlike traditional portable laptop design, the VESA PC can be used with a large size LCD. Furthermore, with FANLESS design is ideal to be used in the environment where temperature demand is critical.

So, if you are looking for a device that is able to provide you with more mobility & space but at the same time uses less power consumption, then this will be surely meet your need.

The VESA® FDMI™ Standard defines mounting interfaces, hole patterns and associated cable/power supply locations for LCD monitors, plasma displays and other flat panel devices. Device is designed to fit this standard to make monitor attachment quick and easy.



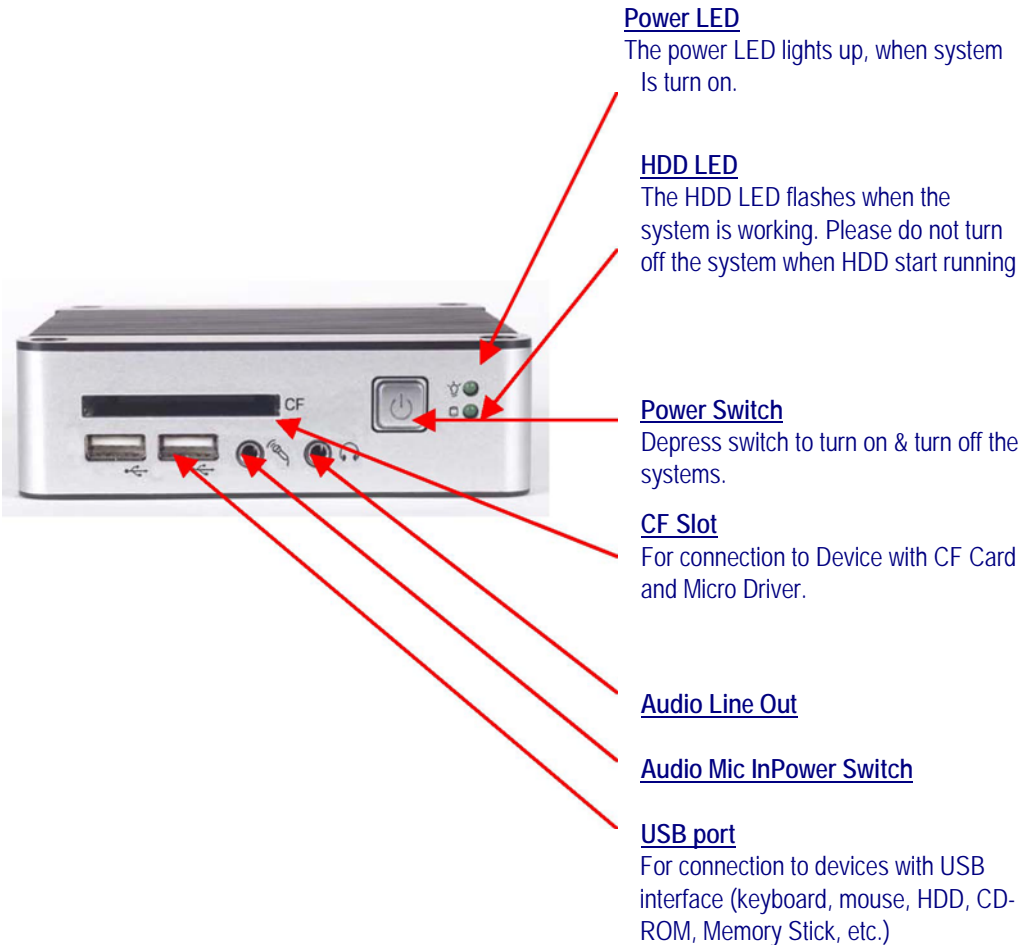
*Photo of mounted mini PC on LCD panel display.*

## SPECIFICATION

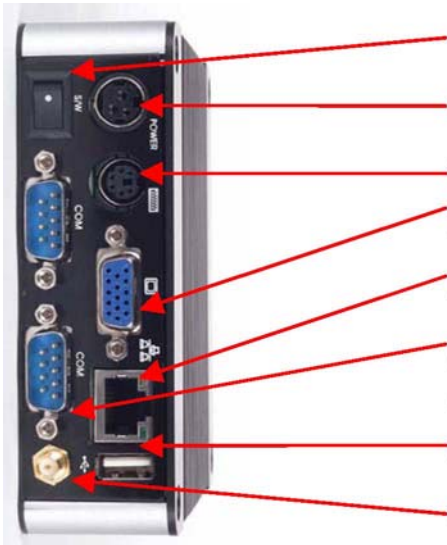
	TC-261	TC-261H	RB-261	RB-262
CPU	Onboard processor x86, SoC, Fanless			
BIOS	AMI BIOS, Quick Boot			
Chipset	SiS 6127			
System Memory	Onboard 128MB SDRAM			
LAN	1x Fast Ethernet RJ-45 Realtek 8100B			
Remote Boot ROM	built-in boot ROM function, support PXE boot and Wake-up on LAN			
MiniPCI	none		1x Mini-PCI connector, port for antenna connector	
CF	CompactFlash Type I / II			
IDE	1 x EIDE (UltraDMA 100) , 44Pin, 2.0 mm Box Header			
HDD	no space	2,5" HDD mountable	no space	no space
Mouse, Keyboard	1 x PS/2 K/B, 1 x PS/2 Mouse			
COM	-			2x RS-232, 9 pin
USB	3 x USB 1.1 ports (two on front panel)			
Display				
Chipset	Integrated in SoC, AGP 4X, 128-Bit 2D Engine, 8MB shared RAM			
Resolution	1280 x 1024 @32 bpp (85Hz)			
Audio	AC97 2.1 (Codec), H/W DirectSound™ accelerator,			
Audio Interface	Line out, Microphone in			
Supported OS	Windows XP Embedded, Windows CE.NET, Linux			
Mechanical & Environment				
Power Requirement	+5V @ 3A (5 ~ 5.25V)			
Operating Temperature	0 ~ 60 C (-4 ~ 140 F)			
Operating Humidity	0% - 90% relative humidity, non-condensing			
Size (W x H x D)	115 x 115 x 135 mm			
Weight	505g			

## OVERVIEW

### Front Panel



## Back Panel



Power switch

DC Power Jack (3-pin)

PS/2 Keyboard & Mouse (6-pin)

VGA port

RJ-45 LAN Jack

Serial port (RB-262)

USB port

Wireless antenna connector (position on RB-26x)

## PERIPHERALS

### CONNECTING THE POWER ADAPTOR



#### Power Adaptor

To use your computer immediately, take and use the supplied AC adapter as a power source. See the left diagram for visual connection.

Connect the DC power jack of the power adaptor to the DC Input jack.



#### Turning ON Your Computer

Press the power button as indicated on the figure on your left-side, the system will start automatically.

### CONNECTING THE MONITOR



#### VGA Connection

Depending on your choice of viewing, select a conventional CRT or the LCD VGA monitor.

Make your connection by following the reference diagram from the VGA cable of your cable to the 15-pin D-Sub VGA port.



## PERIPHERALS

### CONNECTING THE USB

USB port are two in front & at the back of the cabinet.



#### USB Port

The second USB port is available for connection to USB devices.

#### Speaker/Earphone

Supports Input/Output device for speaker and Microphone



#### Connecting to LAN

There is an available RJ-45 LAN jack for connection to the hub of your intranet; and via your server for internet service (see diagram for RJ-45 LAN jack).

### CONNECTING THE KEYBOARD AND MOUSE



The PS/2 Port is available for connect Keyboard or Mouse. Use supplied octopus to connect both into one port.

## CONNECTING SERIAL PORT



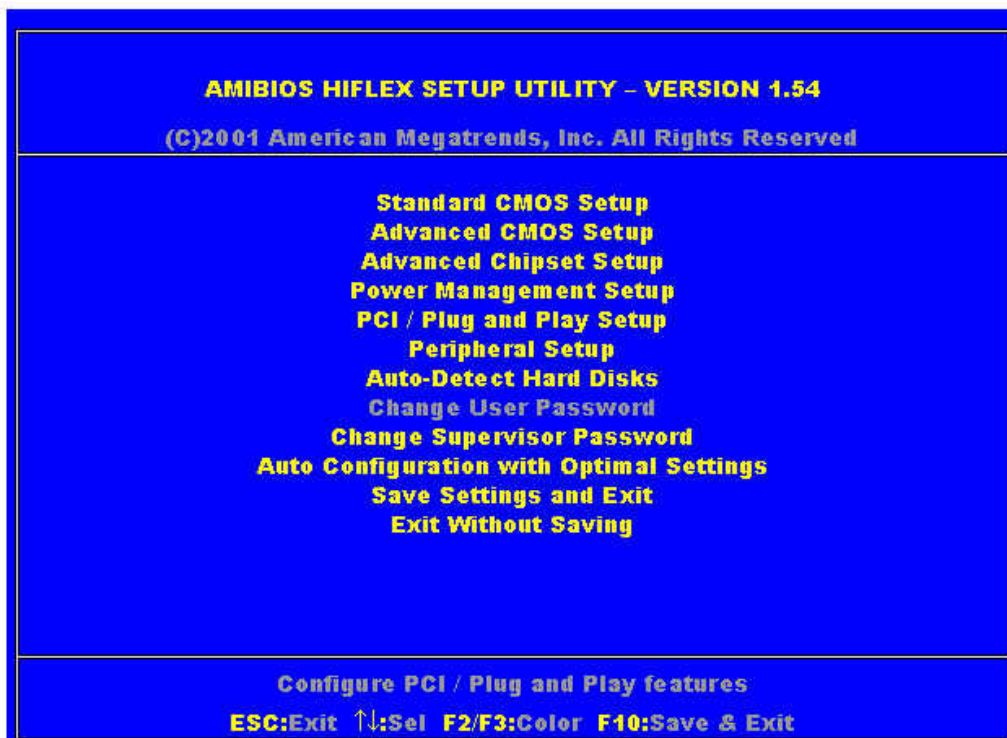
### Serial Port

The serial port is usually connected to a serial device like mem. Serial ports available on RB-262.

# BIOS

## RECONFIGURING

- 1 Take note that AMI BIOS is used in the device. To reconfigure the computer, depress or hit the <Del> key to enter your **BIOS setup main menu**.
- 2 Select from the menu, the desired setup for change.
- 3 Press <Esc> to go back to main menu.
- 4 Move your cursor to "Save Settings and Exit", press "Y" to save the changes that you just made. Device will restart accordingly to your new setup.



## APPENDIX

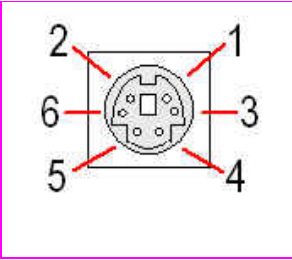
### ONBOARD CONNECTORS SUMMARY

#### SUMMARY TABLE FOR CPU BOARD

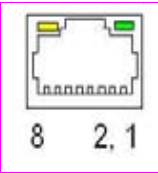
Nbr	Description	Type of Connections	Pin nbrs.
J1	VGA Connector	D-Sub Connector	8-pin
J2	Power Button	Power Button	
J3	USB (Back)	USB Connector	8-pin
J4	PS/2 keyboard or Mouse	Mini DIN Connector	6-pin
J5	RST (Reset)	Hear 2x1 2.0mm	2-pin
J6, J7	USB (Front)	USB Connector	8-pin
J8	LAN	RJ-45	8-pin
J9	Line Out	Audio Jack	
J10	Mic In	Audio Jack	
J11	IDE connector	Box Header 22x2 2.0mm	44-pin
J12	CF Device Jumper	Close : Master	2-pin
J14	DC 5V Input	Mini-Din Connector	3-pin
J16,1J7:	COM Port	Box Header 5x2 2.0mm	10-pin
J18:	Mini PCI	Mini PCI socket	124-pin

## PIN ASSIGNMENTS

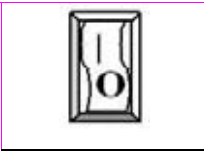
J4:KBD(PS/2Keyboard & Mouse) – 6-pin Mini-Din Connector

	Pin #	Signal Name
	1	KBCLK
	2	PMCLK
	3	GND
	4	KBDAT
	5	PMDAT
	6	SB5V


J8: RJ-45 LAN– 12-pin RJ45 Connector

	Pin #	SignalName	Pin #	SignalName
	1	FTXD+	2	FTXD-
	3	FRXIN+	4	NC
	5	NC	6	FRXIN-
	7	NC	8	NC

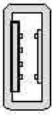
J2: Power Sw – Push Button Switch

	Pin #	Status
		ON
	O	OFF

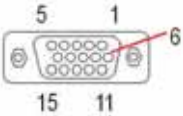
J14: DC-IN 5V – 3-pin MINI-DIN Lock Pin Socket

	Pin #	Signal Name
	1	VCC
	2	GND
	3	NC


J3,J6,J7: USB (USB1x90°)- 4-pin USB Type 1 Connector (Vertical Type)

	Pin #	Signal Name
	1	VCC
	2	USB0-
	3	USB0+
	4	GND
	5	GGND
	6	GGND


J1: VGA – 15-pin Dsub Connector

	Pin #	SignalName	Pin #	SignalName	Pin #	SignalName
	1	MR	6	GND	11	NC
	2	MG	7	GND	12	VCC
	3	MB	8	GND	13	HYSYNC
	4	NC	9	NC	14	VSYNC
	5	GND	10	GND	15	VCC

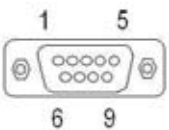
J10: MIC\_IN – 5-pin RCA Phone Jack device

	Pin #	SignalName
	1	GND
	2	AUD MIC
	3	GND
	4	GND
	5	REF

J9: Line-out – 5-pin Phone Jack


	Pin #	SignalName
	1	GND
	2	LOUT L
	3	NC
	4	NC
	5	LOUT R

J16, J17: COM1 - 9-pin Dsub Connector

	Pin #	SignalName	Pin #	SignalName
	1	DCD1	2	RXD1
	3	TXD1	4	DTR1
	5	GND	6	DSR1
	7	RTS1	8	CTS1
	9	RI1		

Action status

LEDS: POWER ON/OFF & HDD R/W

	LED Color	State
	Green	Power On
	Red Flashes	HDD R/W