

**XtendLan**



**TC-26xMXx  
User's Manual**

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## **◆ OWNER'S RECORD**

The serial number of this product is located at the rear panel of your TC-261MX series. Refer to the model and serial number when you contact your nearest dealer or DMP offices for services. The Model No. of this product is also indicated on the product label of your gift box as: TC-261MX, and TC-261MXI.

## ◆ SAFETY INFORMATION

### WARNING

- ▶ Do not expose TC-261MX to rain or moisture, in order to prevent shock and fire hazard.
- ▶ Never install TC-261MX 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 TC-261MX 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 TC-261MX.
- ▶ When using TC-261MX, 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.
- ▶ USB connectors are not supplied with Limited Power Sources.

**DO NOT ATTEMPT TO OPEN OR TO DISASSEMBLE THE CHASSIS (ENCASING) OF THIS PRODUCT. PLEASE CONTACT YOUR NEAREST DEALER FOR SERVICING FROM QUALIFIED TECHNICIAN.**

## **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.

## **PURCHASE AGREEMENT**

### **PURPOSE:**

In accordance to the general commercial conduct of Trust and Fair Trade, herewith below is the agreement for the protection for both parties, DMP and Users in pursuant of trading.

### **PRODUCT DESCRIPTION:**

With this product, herewith also known as TC-261MX, which is a simplified & an economical design of an embedded TC-261MX for Special Purpose Personal Computing. The basic specification of this product comprises of the x86 technology design, and with onboard 512MB System memory, VGA display, USB, PS/2 Keyboard, Mouse, LAN, and Audio Interfaces.

### **DISTRIBUTION CONVENTION:**

1. This Product includes a gift box, an inner case, a PC, a Power adaptor, (and IDE cable will be included only for TC-261MXH package). Upon receiving this product, kindly please refer to the User' Manual to check for the contents and appearance of this product; contact immediately your nearest dealer or DMP office for any defective or missing parts. The supplier will not be responsible for any reported discrepancy thereafter the expiration period of 3-days from the date of purchase.
2. In consideration of transportation and the cost of storage, the supplier provides to the distributors a warranty of 12-months. This warranty covers the failure caused by hardware breakdown (excluding hard drives), but does not cover the act of misuse and mishandling.
3. The supplier will not accept unknown post, therefore if you wish to repair or to return your goods – kindly please contact your nearest dealer to make your declaration, and at the same time, apply for a RMA number (RMA stands for Return Merchandise Authorization – please see the RMA form and fill-up for authorization).
4. The freight for return goods for repair will follow the International customary practice and convention: Both parties is to pay for freight of one shipment each. The shipper is required to prepay the freight from the place of origin (This means that the returnee (user) covers the freight for return goods, while the Supplier covers the freight for goods after the repair).
5. Obsolete warranty is referred to as: (1) Expiration of warranty or (2) Damage due to misuse within warranty. The Supplier will be taken into consideration of the circumstances, to provide repair service with charges expense for obsolete warranty. This expense includes the cost of material and the cost of labor.

### **NOTE:**

If there is other particular issue not listed in the above conditions, both parties agreed to follow the General Law of Commerce with fair and reasonable discussion in handling and resolving the argument.

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## UNPACKING YOUR EMBEDBOX

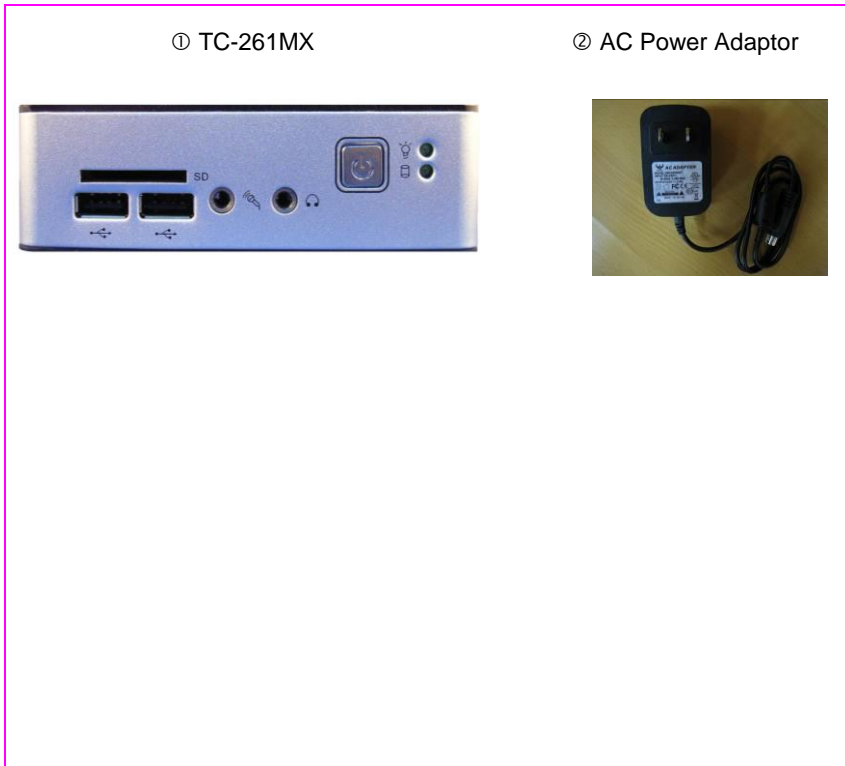
**Congratulation!** You have just acquired TC-261MX, the world's smallest and compact PC (See Figure 1), please check the following items:

### PACKING LIST FOR TC-261MX SERIES

Item	Description	Q'ty
①	TC-261MX VESA PC	1
②	Max. 10-watts External Power Adaptor, Vin: 100~240VAC • 50/60Hz, 0.45A / Vout: +5.0VDC @ 2.0A max.	1

\* Note: The accessories are subject to change without immediate notice.

### CHECK BEFORE USE



**Figure 1**

## PREFACE

### TC-261MX: VESA PC



The TC-261MX is a revolutionary device which 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 TC-261MX 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 TC-261MX can be used with a large size LCD. Furthermore, with FANLESS design, TC-261MX 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 TC-261MX 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. TC-261MX is designed to fit this standard to make monitor attachment quick and easy.

# TC-261MX OVERVIEW

## Front Panel

### Power LED

The power LED lights up when system is turn on.

### HDD LED

The HDD LED flashes when the system is working. Never turn off the power when HDD LED is still flashing.

### SD Slot

The system is bootable from SD card.

### Audio Line Out

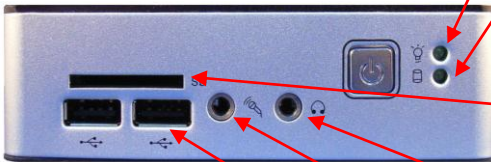
Output to speaker

### Audio Mic In

For Microphone Input

### USB port

For connection to devices with USB interface (HDD, CD/DVD-ROM, Memory Stick, etc.)



## Back Panel

### ▶ DC Power Jack

### ▶ PS/2 Keyboard or Mouse (6-pin)

### ▶ VGA

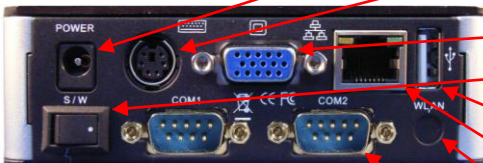
### ▶ Power switch

### ▶ USB Port

### ▶ RJ-45 LAN Jack

### ▶ Wireless Antenna connector (optional)

### ▶ RS-232RS-422 RS485(optional)



## **EMBEDDED CPU BOARD**

### **SYSTEM SPECIFICATION**

#### **CPU**

MSTI-PMX-1000 (System on Chip)

#### **Main Memory**

512MB DDR2

#### **BIOS**

AMI BIOS

#### **VGA**

XGI Z9S with 32MB DDR2

Resolution up to 1,280x1,024 High Colors

#### **Audio**

Mic In, Line Out

#### **Keyboard and Mouse**

PS/2 Keyboard and Mouse

#### **On-Board SATA**

SATA 2.0 connector x1

#### **Peripheral**

1. USB V2.0 (host) x 3
2. Audio (Mic In, Line Out)
3. SD slot
4. Serial ports x 2 (available for TC-261MXI)
5. 24 bit GPIO (available for TC-261MXI)

#### **Dimension & Weight**

115 x 115 x 35 mm / 505g

#### **Operating System**

Suitable for:

Windows XP

Windows XP Embedded

Windows Embedded CE

Linux

## PERIPHERALS

### CONNECTING THE POWER ADAPTOR

#### Power Adaptor



To use TC-261MX immediately, please attach the supplied AC adaptor 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 of TC-261MX.



#### Turning ON TC-261MX

Switch on power 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.

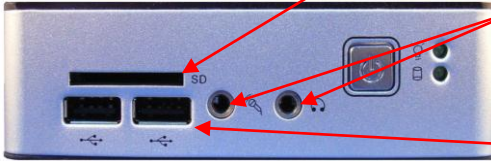
Make your connection by following the reference diagram from the VGA cable of your cable to the 15-pin D-Sub VGA port of TC-261MX.

## PERIPHERALS

### CONNECTING THE USB AND SPEAKER/EARPHONE

TC-261MX provides USB port (Two in front & one at the back).

#### Front cabinet



#### SD

For connection to Device with Compact Flash Card and Micro-SD (T-flash).

#### Microphone/Earphone

The TC-261MX supports for Microphone Input and Speaker Output

#### USB Ports

The USB ports is available for connection to USB devices such as CD-ROM

### CONNECTING THE LAN



#### 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



### PS/2 Keyboard or Mouse (6-pin)

The PS/2 Port is available for connecting Keyboard/Mouse (shared)

## CONNECTING SERIAL PORT



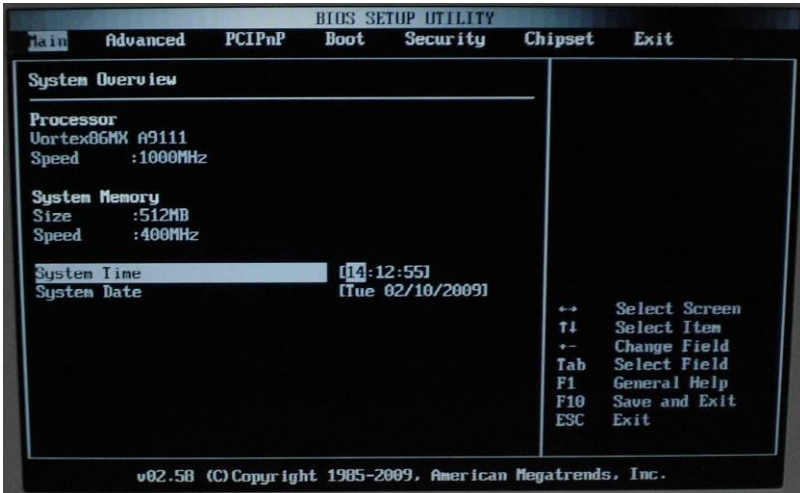
### Serial Ports

The serial port is usually connected to a serial device like modem (option for eBox-3300MX-JSK)

## BIOS

### RECONFIGURING TC-261MX

1. Take note that AMI BIOS is used in the TC-261MX. To reconfigure the TC-261MX, 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 "Exit" TAB and select "Save Settings and Exit", press "Y" to save the changes that you just made. TC-261MX will restart accordingly to your new setup.



(AMI BIOS Setup menu)



## TECHNICAL SPECIFICATION

Features	Description
CPU	MSTI PMX-1000
BIOS	AMI BIOS
System Memory	Onboard 512MB DDR2
<b>I/O</b>	
MIO	1 x SATA 2.0 connector 1 x SD slot 1 x RJ-45 Ethernet Connector 3 x RS-232(optional) 1 x PS/2 for K/B or Mouse 24 bit GPIO(optional) 2 x RS-232 ports, and 1x RS-422 port(optional) 2 x RS-232 ports, and 1x RS-485 port(optional)
USB	3 x USB 2.0 Ports (two in front)
<b>Audio</b>	
Integrated Audio	Mic In x 1, Line Out x 1
<b>Display</b>	
VGA	XGI Z9S with 32MB DDR2 External 15-pin D-type female VGA connector TV-Out(optional)
Resolution	Up to 1280x1024
<b>Ethernet</b>	
Remote Boot ROM	Integrated 10/100Mbps LAN Built-in PXE diskless boot function
<b>Mechanical &amp; Environment</b>	
Power Requirement	+5V @ 2A
Operating Temperature	5 ~ 50° C
Operating Humidity	0% - 90% relative humidity, non-condensing
Size (W x H x D)	115 x 115 x 35 mm
Weight	505g
Certification	CE, FCC

### Note:

TC-261MX: Standard Version with SATA and 3 x RS-232 ports

TC-261MXH: Standard Version with SATA support

TC-261MXC: Standard Version with 2 x RS-232 ports, and 1x RS-485 port

TC-261MXIC: GPIO Version with 2 x RS-232, and 1 x RS-485 port

TC-261MXI: GPIO Version with 3 x RS-232 ports



## TAKING CARE TC-261MX

This section gives you guidelines on using TC-261MX – Safe using, Storing and Handling.

### STORING

- ▶ Do not place TC-261MX in a location that is subject to:
  - Heating sources, such as stove, oven, heater, radiator or air duct
  - Direct contact from sunlight
  - Rain or moisture area
  - Excessive dust accumulation area
  - High humidity place
  - Constant or occasional mechanical movement, vibration or shock
  - Strong magnets or magnetic fields or magnetically unshielded speakers
  - Ambient temperature of more than 95°F (35°C) or less than 32°F (0°C)
- ▶ Do not place other electronic device or electrical equipment near TC-261MX. The electromagnetic field of the TC-261MX may cause interference subjecting to malfunction.
- ▶ Provide adequate air ventilation (circulation) to prevent internal buildup of heat. Do not place TC-261MX near the wall, behind the curtains or draperies, in between two books that block its ventilation slots. Leave a space of at least 8 inches (20cm) behind the sides and back panel of the TC-261MX.
- ▶ Change of environmental temperature: Problems may occur when there is a sudden change of environmental temperature, or if the TC-261MX is brought directly from a cold location to a warm one, moisture may condense inside TC-261MX. Turn off TC-261MX, and contact your nearest dealer.
- ▶ Check the surrounding appliance(s) before using TC-261MX. Since the TC-261MX uses high-frequency radio signal and may interface with radio or TV reception causing interference or poor signal display. When this happens, relocate the TC-261MX by a suitable distance away from the set.
- ▶ Do not drop the TC-261MX from the working table nor place heavy objects on top of the TC-261MX.

## USING CABLES FOR CONNECTION

- ▶ To avoid problem, use only the specified interface cables in your accessory bag. The supplier will not be responsible for the connection arising from the other unspecified peripheral equipment.
- ▶ Do not use cut or damaged cables for connection.

## CLEANING YOUR VESA PC

- ▶ Clean the TC-261MX with a soft, dry cloth or a soft cloth lightly moistened with a mild detergent solution.
- ▶ Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzene, as these may damage the finish of TC-261MX.
- ▶ When a solid object falls or a liquid spills onto the TC-261MX, turn off the TC-261MX immediately and unplug the LAN and power cables. Contact a qualified person or your dealer to check the TC-261MX before you use it again.
- ▶ Always disconnect the power cord from the power source before cleaning the TC-261MX.

## TROUBLESHOOTING

This section describes the techniques of resolving some basic problems that you encounter when using TC-261MX. For more troubleshooting guidelines, please contact your nearest dealer for technical support.

### TROUBLESHOOTING YOUR VESA PC

#### A. VESA PC does not start

- ▶ Make sure the TC-261MX is properly secured and plugged into a power source before it is turned on. Make sure the power indicator shows the power is on. See section 2 for more information about “TC-261MX Overview”.
- ▶ When the TC-261MX is plugged into a power strip or the UPS (Uninterruptible Power Supply), make sure the power strip or UPS is turned on and working normally.
- ▶ Check if your VGA or LCD monitor is properly plugged into a power source and turned on. Make sure the brightness and contrast controls are adjusted correctly. See the manual that came with your display (monitor) for details.
- ▶ Check if your power control button does not function, by removing the AC adaptor. Wait for one minute, and then reattach all power connection before pressing the power button.
- ▶ Condensation may cause the TC-261MX to malfunction for a while. If this happens, do not use the TC-261MX for at least one hour.
- ▶ When you have checked all the above guidelines and the TC-261MX does not work. Remove the power adaptor from the TC-261MX, unplug the power cord, and plug it in again. Then turn on the power.

#### B. BIOS Error Message –

##### BIOS error message appear when my VESA PC starts

If the BIOS error message appears, press any key to resume or, hit <DEL> to enter BIOS setup main menu, follow these steps:

1. Press <DEL>, and the BIOS Setup main menu appears, check if HDD is detected at “Pri Master”. If it is not detected, use Direction keys <↑↓> to choose “AUTO” and then go back to the main menu by pressing <ESC>. Move your cursor down with Direction keys <↓>, and choose “Save Settings and Exit”, a message dialog appears as seen below, hit <Enter>.

“Save current settings and exit (Y/N)? Y”

2. Go to “Exit” menu using the Direction keys <↑↓> and choose the option “Load Optimal Defaults”, then press <Enter>. A message dialog appears as seen below, hit “Y” key and presses <Enter> to save and recover to the factory setting.

“Load Optimal Defaults (Y/N)? Y”



(BIOS Setup menu "Exit")

### C. "Operating System Not Found" –

A message indicating that "Operating system not found" appear when my VESA PC starts (Windows won't start)

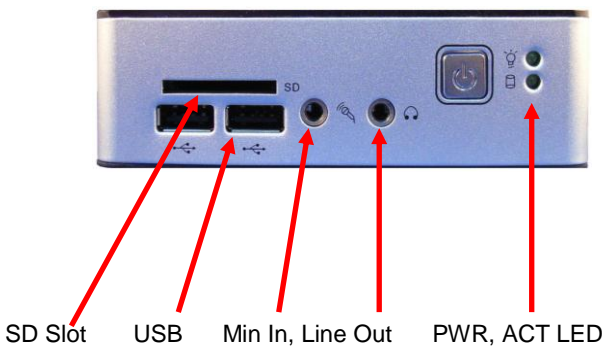
- ▶ Enter your BIOS setup main menu by pressing <DEL> key, be sure that the C: drive is enable.
- ▶ If Windows still does not start, follow these steps to initialize the BIOS:
  1. Turn off the TC-261MX.
  2. Remove any peripheral devices connected to the TC-261MX.
  3. Restart the TC-261MX.
  4. Press <DEL> to enter **BIOS Setup main menu** window.
  5. Follow the steps as written in item **B. BIOS error message**.
- ▶ **For TC-261MX** : If you have just connect TC-261MX to a CD/DVD or USB Drivers, remove these peripherals.. And restart TC-261MX to confirm that the Windows operating system starts properly. If TC-261MX continues to display the message "Operating system not found," and Windows does not start, please contact your nearest dealer for servicing.

**ONBOARD CONNECTORS SUMMARY**

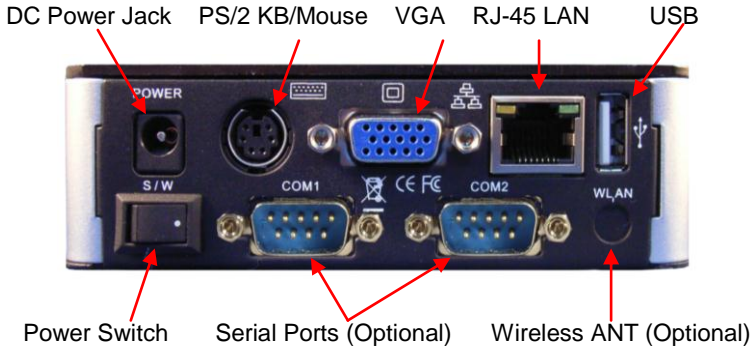
**SUMMARY TABLE FOR CPU BOARD**

Nbr	Description	Type of Connections	Pin nbrs.
J1	SODIMM-SOC-200P-1.8V	SODIMM socket 200 Pin	200-pin
J3	SATA	SATA socket	7-pin
J5	USB (Front)	USB Connector	8-pin
J6	USB (Front)	USB Connector	8-pin
J7	USB(Back)	USB Connector	8-pin
J8	USB(Inside)	USB Connector	8-pin
J9	Ethernet LAN	RJ-45	8-pin
J10	VGA	D-Sub Connector	15-pin
J11	Line-Out	Audio Jack	2-pin
J12	PS2 connector	Mini Din connector	6-pin
J13	Microphone	Audio Jack	2-pin
J14	COM1 Port	Box Header 5x2 2.0mm	10-pin
J15	COM2 Port	Box Header 5x2 2.0mm	10-pin
J16	DC 5V Input	DC-JACK	1-pin
J17	Power Switch	Power Switch	4-pin

► **FRONT CONNECTORS OUTLINE FOR TC-261MX**



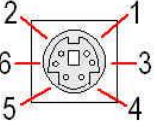
► REAR CONNECTORS OUTLINE FOR TC-261MX






## PIN ASSIGNMENTS

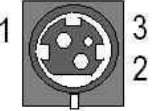
J12:PS/2 Keyboard or Mouse – 6-pin Mini-Din Connector

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

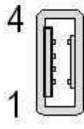
J17:Power SW – Push Button Switch

	Pin #	Status
		ON
	O	OFF

J16: DC-IN (5V) –3-pin Mini-Din Lock Pin Socket

	Pin #	Signal Name
	1	VCC
	2	GND
3	NC	

J7: USB (90°)– 4-pin USB Type 1 Connector (Vertical Type)

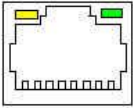
	Pin #	Signal Name
	1	VCC
	2	USB0-
	3	USB0+
	4	GND
	5	GGND
6	GGND	

## GPIO

Pin #	Signal Name	Pin #	Signal Name
1	VCC	2	GND
3	GP10	4	GP00
5	GP11	6	GP01
7	GP12	8	GP02
9	GP13	10	GP03
11	GP14	12	GP04
13	GP15	14	GP05
15	GP16	16	GP06
17	GP17	18	GP07
19	GP34	20	GP30
21	GP35	22	GP31
23	GP36	24	GP32
25	GP37	26	GP33

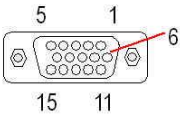
## J9:LAN: RJ-45 Connector

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

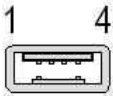


## ► PIN ASSIGNMENTS


J15: VGA – 15-pin D-Sub Connector

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

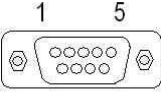
J5,J6,J8:USB (USB2): For connection to external USB device –4-pin USB Type 1 Connector (H)

	Pin #	Signal Name
		1
	2	USB2-
	3	USB2+
	4	GND
	5	NC
	6	NC

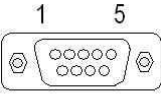
LEDS: POWER ON/OFF & HDD R/W

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

J14: COM - 9-pin D-Sub Connector(RS-485/RS422 optional)

	Pin #	Signal Name	Pin #	Signal Name
		1	DCD1/RS-485-1 /422TX-1	2
	3	TXD1/422RX+1	4	DTR1/422RX-1
	5	GND	6	DSR1
	7	RTS1	8	CTS1
	9	RI1	--	--

J15: COM - 9-pin D-Sub Connector

	Pin #	Signal Name	Pin #	Signal Name
		1	--	2
	3	TXD3	4	--
	5	GND	6	--
	7	TXD4	8	RXD4
	9	--	--	--

# WARRANTY

## TERMS AND CONDITIONS

### 1. Warranty

The warranty terms for TC-261MX are twelve (12) months from the beginning on the date of invoice. During the warranty period, DMP Electronics Will repair replace the product covered under this limited warranty.

### 2. Service and Support

XtendLan provides the technical support for hardware problems with your system throughout the warranty period. The technical support service is limited to configuration and operation of TC-261MX sold by XtendLan The technical support service does not offer software tutoring or training.

### 3. Return Merchandise Authorization ( RMA ) policy

If the DMP staff or dealer determines that a part is defective. Purchaser must call our technical support service to obtain an RMA number before attempting to return any part. Please refer to your nearest dealer for

To obtain an RMA number, Purchaser must follow procedures as below :

1. Complete the XtendLan standard RMA Form and fax back to the RMA Department.
2. The RMA Number must be used within 7 DAYS
3. The RMA Number must be shown clearly on your shipping label.
4. XtendLan must receive all Returns before a replacement will be sent.
5. The repair cost is depends on the parts, the damage reasons, and whether under warranty period...etc. The Seller will charge the Purchaser in a reasonable price.
6. A copy of the invoice for the RMA product(s) will also be shipped to Purchaser.
7. The freight of return to XtendLan is charges to Purchaser account and accompanied by an RMA number. Any Returns with freight collect will be refused and returned to you. After Repairing, the cost of freight will be paid by Seller.
8. XtendLan must receive all returned goods within the warranty period.

### 4. Shipping Policy

The Purchaser must pre-pay shipping for any defective system or parts returned under the warranty. XtendLan shall not be liable for risk of loss or damage during shipment of your returned system or parts if you fail to insure the shipment.

All products must be shipped back to XtendLan in original or equivalent packaging. XtendLan will ship the repaired or replacement product(s) to Purchaser by freight prepaid. Purchaser assumes the risk of loss. XtendLan shall not be responsible for failure of the delivery service to make on-time delivery.

# MEMO

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