



**ARTISAN<sup>®</sup>**  
TECHNOLOGY GROUP

Your **definitive** source  
for quality pre-owned  
equipment.

**Artisan Technology Group**

(217) 352-9330 | [sales@artisanTG.com](mailto:sales@artisanTG.com) | [artisanTG.com](http://artisanTG.com)

**Full-service, independent repair center**

with experienced engineers and technicians on staff.

**We buy your excess, underutilized, and idle equipment**

along with credit for buybacks and trade-ins.

**Custom engineering**

so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

**Expert team | Trust guarantee | 100% satisfaction**

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *ICOP PMX-089T-8A-512* at our website: ***Click HERE***



**PMX-089T-5A / PMX-089T-8A  
PMX-089T-5A-512 / PMX-089T-8A-512**

**DM&P Vortex86MX Panel PC  
with 8.9" TFT LCD**

**User's Manual**

## ● Copyright

The information in this manual is subject to change without notice for continuous improvement in the product. All rights are reserved. The manufacturer assumes no responsibility for any inaccuracies that may be contained in this document. And makes no commitment to update or to keep current the information contained in this manual.

No part of this manual may be reproduced, copied, translated or transmitted, in whole or in part, in any form or by any means without the prior written permission of the DMP Electronics Inc.

## ● Trademarks Acknowledgment

Vortex86MX™ is the registered trademark of DMP Electronics Inc. Other brand names or product names appearing in this document are the properties and registered trademarks of their respective owners. All names mentioned herewith are served for identification purpose only.

## ● Safety Information

- ◆ Read these Safety instructions carefully.
- ◆ Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- ◆ Do not expose your Panel PC to rain or moisture, in order to prevent shock and fire hazard.
- ◆ Keep PMX-089T away from humidity.
- ◆ 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 is disconnected.
- ◆ Locate your Panel PC 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 Panel PC.
- ◆ USB connectors are not supplied with Limited Power Sources.
- ◆ If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.

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

# Table of Contents

Table of Contents.....	iii
Chapter 1 General Information.....	1
1.1 Product Description .....	1
1.2 Product Specifications .....	2
1.3 Inspection standard for TFT-LCD Panel .....	4
1.4 Product Dimension .....	7
1.5 Ordering Information .....	8
1.6 Packing List.....	8
Chapter 2 System Installation.....	9
2.1 CPU Board Outline.....	9
2.2 Connector Summary .....	10
2.3 Connector Pin Assignments .....	11
2.4 External I/O Overview .....	14
2.5 External I/O Pin Assignment.....	15
2.6 System Mapping.....	17
2.7 Watchdog Timver .....	20
Chapter 3 Driver Installation.....	21
3.1 PMX-089T Development Note.....	22
3.2 BIOS Defaul Setting .....	23
Warranty.....	24

# Chapter 1

## General Information

### 1.1 Product Description

PMX-089T is an ultra compact platform for the present demanding embedded and productive applications. It has new Vortex86MX SoC CPU which consumes only minimum power requirement when running at 1GHz, and DDR2 memory provides faster data transfer rate. By using 8.9" TFT LCD, PMX-089T becomes the perfect choice for a limited budget. In addition, the integrated 10/100M Ethernet port supplies the communication capability which makes PDX-089T can be more widely used when running with Linux, Windows CE, and Windows XP environment to become the perfect solution for system integration.

- |                                      |                                              |
|--------------------------------------|----------------------------------------------|
| ■ 8.9" WSVGA TFT LCD                 | ■ 1 RS-232/485/422 ports                     |
| ■ 4-Wire Resistive Touch Panel       | ■ Wi-Fi Optional                             |
| ■ DM&P Vortex86DX SoC 1GHz           | ■ Audio Out                                  |
| ■ 512MB/1GB DDR2 system memory       | ■ Single voltage +5V DC(5A Version)          |
| ■ AMI BIOS                           | ■ Multi voltage +8~+35V DC(8A Version)       |
| ■ 2 watchdog timer                   | ■ Fanless Design                             |
| ■ Compact Flash Type I/II / Micro SD | ■ Operating temperature range of 0°C to +50° |
| ■ 10/100Mbps Ethernet                |                                              |
| ■ 2 USB 2.0 (host)                   |                                              |

## 1.2 Product Specification

### CPU Board Specifications

CPU	DM&P Vortex86MX 1GHz
Cache	L1:16KB I-Cache, 16KB D-Cache L2: 256KB Cache
BIOS	AMI BIOS
Memory	512MB/1GB DDR2 onboard
Watchdog Timer	Software programmable from 30.5u to 512 seconds x 2 sets
LAN	Integrated 10/100M Ethernet
Audio	HD Audio-Realtek ALC262 CODEC
Internal Drives	Compact Flash Type I/II slot Micro SD slot
I/O	RS-232/422/485 x 1 USB ports (Ver2.0) x 2 RJ-45 Port x 1

### Mechanical & Environment

Power Requirement	Single Voltage +5VDC ( 5A ) Multi Voltage +8~+35VDC ( 8A )
Power Consumption	1.5A@5VDC
Operating Temperature	0 ~ +50 °C ( 32 ~ +122 °F)
Storage Temperature	-10 ~ +60 °C ( 14 ~ +140 °F)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
Dimensions	236.6 x 146 x 35mm (9.31 x 5.75 x 1.38 inches)
Weight	468g
Front Panel Protection	IP 65
Certification	CE, FCC, VCCI, Vibration

LCD Specifications	
Display Type	8.9" TFT LCD
Backlight Unit	LED
Display Resolution	1024(W) x 600(H)
Brightness (cd/m <sup>2</sup> )	220 nits
Contrast Ratio	500:1
Display Color	262,144
Pixel Pitch (mm)	190.5 (H) x 189 (V)
Viewing Angle	Vertical 110°, Horizontal 140°
Backlight Lifetime	25,000 hrs
Touchscreen	
Type	Analog Resistive
Resolution	Continuous
Transmittance	80%
Controller	PS/2 interface
Software Driver	DOS/Linux/WinCE/WinXP
Durability	1 million

## 1.3 Inspection standard for TFT-LCD Panel

DEFECT TYPE			LIMIT				Note		
VISUAL DEFECT	INTERNAL	SPOT	$\varphi < 0.15\text{mm}$		Ignore		Note1		
			$0.15\text{mm} \leq \varphi \leq 0.5\text{mm}$		$N \leq 4$				
			$0.5\text{mm} < \varphi$		$N=0$				
		FIBER	$0.03\text{mm} < W \leq 0.1\text{mm}, L \leq 5\text{mm}$		$N \leq 3$		Note1		
			$1.0\text{mm} < W, 1.5\text{mm} < L$		$N=0$				
		POLARIZER BUBBLE	$\varphi < 0.15\text{mm}$		Ignore		Note1		
			$0.15\text{mm} \leq \varphi \leq 0.5\text{mm}$		$N \leq 2$				
			$0.5\text{mm} < \varphi$		$N=0$				
		Mura	It' OK if mura is slight visible through 6%ND filter						
ELECTRICAL DEFECT	BRIGHT DOT		A Grade			B Grade			
			C Area	O Area	Total	C Area	O Area	Total	Note3
			$N \leq 0$	$N \leq 2$	$N \leq 2$	$N \leq 2$	$N \leq 3$	$N \leq 5$	Note2
	DARK DOT		$N \leq 2$	$N \leq 3$	$N \leq 3$	$N \leq 3$	$N \leq 5$	$N \leq 8$	
	TOTAL DOT		$N \leq 4$			$N \leq 5$	$N \leq 6$	$N \leq 8$	Note2
	TWO ADJACENT DOT		$N \leq 0$	$N \leq 1$ pair	$N \leq 1$ pair	$N \leq 1$ pair	$N \leq 1$ pair	$N \leq 1$ pair	Note4
	THREE OR MORE ADJACENT DOT		NOT ALLOWED						
	LINE DEFECT		NOT ALLOWED						

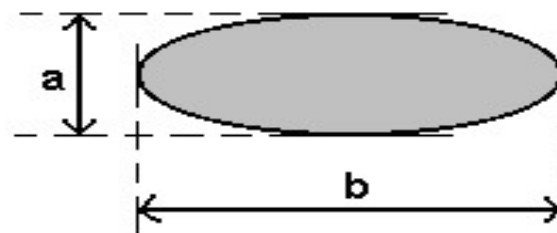
(1) One pixel consists of 3 sub-pixels, including R,G, and B dot.(Sub-pixel = Dot)

(2) LITTLE BRIGHT DOT ACCEPTITABLE UNDER 6 % ND-Filter

(3) If require G0 grand (Total dot  $N \leq 0$ ), please contact region sales.

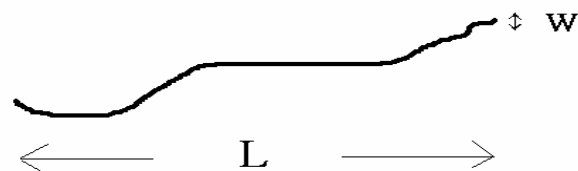


[Note1] W : Width[mm], L : Length[mm], N : Number,  $\phi$ : Average Diameter



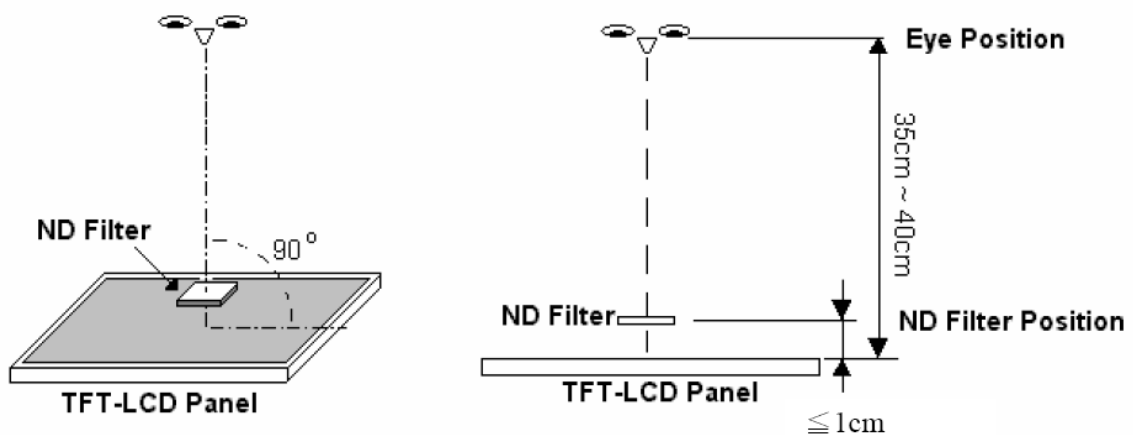
$$\phi = (a + b) / 2$$

1. (White, black) Spot
2. Polarizer Bubble

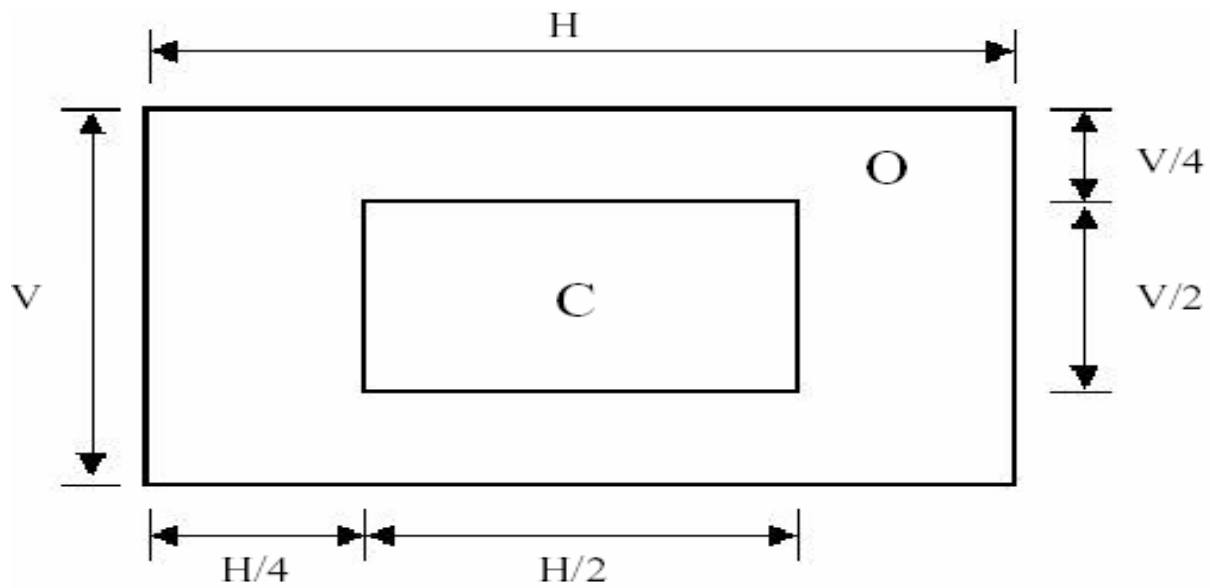


1. fiber

[Note2] Bright dot is defined through 6% transmission ND Filter as following.



[Note3]

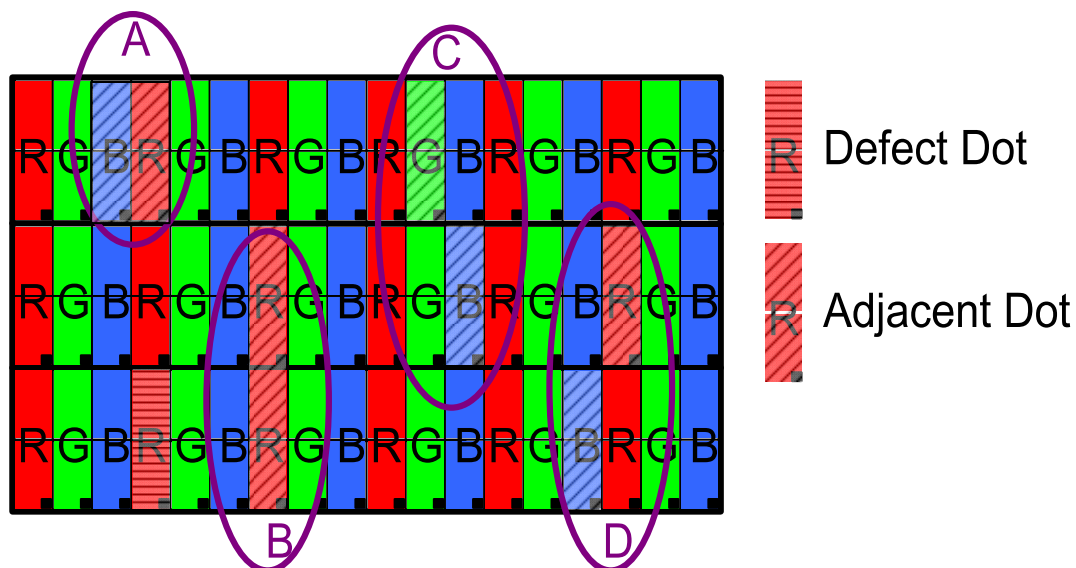


C Area: Center of display area

C Area: Outer of display area

[Note4]

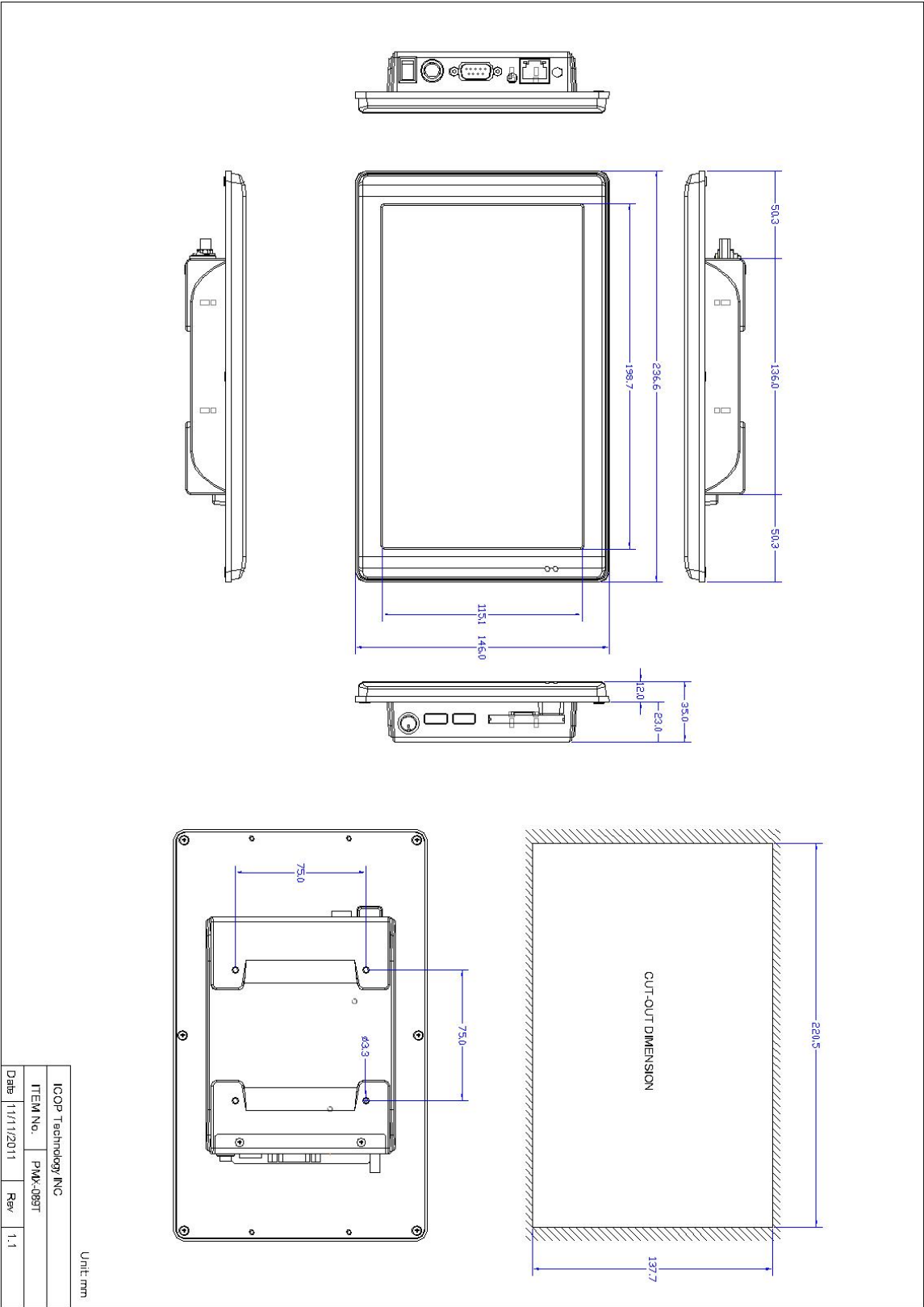
Judge defect dot and adjacent dot as following. Allow below (as A, B, C and D status) adjacent defect dots, including bright and dark adjacent dot. And they will be counted 2 defect dots in total quantity.



(1) The defects that are not defined above and considered to be problem shall be reviewed and discussed by both parties.

(2) Defects on the Black Matrix, out of Display area, are not considered as a defect or counted.

# 1.3 Product Dimension



## 1.4 Ordering Information

Part Number	Description
PMX-089T-5A	8.9" Panel PC w/1GB DDR2/2USB/Line-Out/LAN/COM/CF/MicroSD/Power Adapter
PMX-089T-8A	8.9" Panel PC w/1GB DDR2/2USB/Line-Out/LAN/COM/CF/MicroSD/8-35 DC support
PMX-089T-5A-512	8.9" Panel PC w/512MB DDR2/2USB/Line-Out/LAN/COM/CF/MicroSD/Power Adapter
PMX-089T-8A-512	8.9" Panel PC w/512MB DDR2/2USB/Line-Out/LAN/COM/CF/MicroSD/8-35 DC support

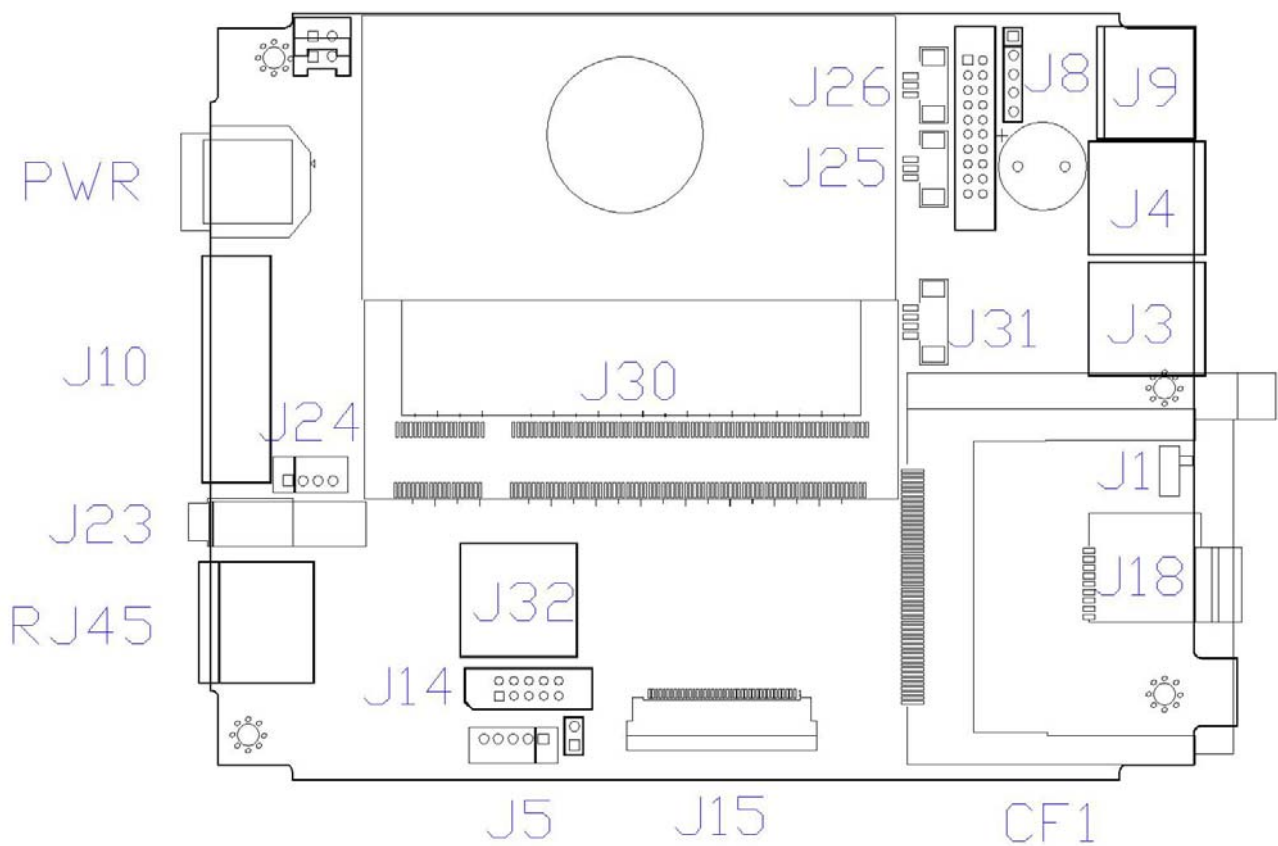
## 1.5 Packing List

Part Number	Package
PMX-089T-5A	<ul style="list-style-type: none"> <li>◆ PMX-089T-5A</li> <li>◆ Power-20W-3PIN</li> </ul>
PMX-089T-8A	<ul style="list-style-type: none"> <li>◆ PMX-089T-8A</li> </ul>
PMX-089T-5A-512	<ul style="list-style-type: none"> <li>◆ PMX-089T-5A-512</li> <li>◆ Power-20W-3PIN</li> </ul>
PMX-089T-8A-512	<ul style="list-style-type: none"> <li>◆ PMX-089T-8A-512</li> </ul>
WLAN KIT (Optional)	<ul style="list-style-type: none"> <li>◆ USB-WLAN-IPEX-KIT</li> <li>◆ WIRELESS-ANTENNA-157</li> <li>◆ WIRELESS-CABLE-150MM</li> </ul>

# Chapter 2

## System Installation

### 2.1 CPU Board Outline



## 2.2 Connector Summary

Summary Table			
Nbr	Description	Type of Connections	Pin nbrs.
J1	CF Master/Slave Switch	Slide Switch	On/OFF
J3	USB	External USB Connector	6-pin
J4	USB	External USB Connector	6-pin
J5	USB (Touchscreen)	2.0mm 5-pin wafer	5-pin
J8	PS/2 Keyboard	2.54mm 5-pin box header	5-pin
J9	PS/2 Keyboard/Mouse	External Mini DIN Socket	6-pin
J10	COM2(RS232/422/485)	External D-Sub Male Connector	9-pin
J14	VGA	2.0mm 10-pin box header	10-pin
J18	Micro SD Card Socket	Micro SD socket	
J23	Audio Line-Out	1.25mm Phone Jack	
J24	Audio Mic-In	2.0mm 4-pin wafer	4-pin
J25	COM3 (TX, RX)	1.25mm 3-pin wafer	3-pin
J26	COM4 (TX, RX)	1.25mm 3-pin wafer	3-pin
J30	SOM CPU Board Socket	SOM CPU Board Socket	200-pin
J31	4-Wires Touch connector	1.25mm 4-pin wafer	4-pin
J32	USB (Wi-Fi Optional)	Internal USB Connector	6-pin
RJ45	Ethernet	External RJ45 Connector	8-pin
PWR	Power Connector (5A)	External Mini DIN Socket	3-pin
PWR	Power Connector (8A)	External Power Plug	2-pin
CF1	CF Card Socket	CF Type I/II Socket	

## 2.3 Connector Pin Assignments

### J1: CF Master/Slave Switch

Pin #	Signal Name
On	Master
OFF	Slave

### J3: USB

Pin #	Signal Name	Pin #	Signal Name
1	VCC	2	USBD2-
3	USBD2+	4	GND
5	GND	6	GND

### J4: USB

Pin #	Signal Name	Pin #	Signal Name
1	VCC	2	USBD3-
3	USBD3+	4	GND
5	GND	6	GND

### J5: USB (Optional)

Pin #	Signal Name
1	VCC
2	USBD1-
3	USBD1+
4	GND
5	GND

### J8: PS/2 Keyboard

Pin #	Signal Name	Pin #	Signal Name
1	KBCLK	2	KBDAT
3	NC	4	GND
5	VCC		

### J9: PS/2 Keyboard/Mouse

Pin #	Signal Name	Pin #	Signal Name
1	KBCLK	2	MSCLK

3	GND	4	KBDATA
5	MSDATA	6	VCC
7	GND	8	GND
9	GND		

### J10: COM1 RS232/422/485 (Change setting by BIOS)

Pin #	Signal Name	Pin #	Signal Name
1	DCD1 / 422TX- / RS485-	2	RXD1 / 422TX+ / RS485+
3	TXD1 / 422RX+	4	DTR1 / 422RX-
5	GND	6	DSR1
7	RTS1	8	CTS1
9	RI1		

### J14: VGA

Pin #	Signal Name	Pin #	Signal Name
1	R OUT	2	GND
3	G OUT	4	GND
5	B OUT	6	GND
7	HSYNC	8	GND
9	VSYNCD	10	GND

### J24: MIC-IN

Pin #	Signal Name
1	MICVREF
2	GND
3	GND
4	MIC-IN

### J25: COM3 (TX, RX)

Pin #	Signal Name
1	GND
2	TXD3
3	RXD3



### J26: COM4 (TX, RX)

Pin #	Signal Name
1	GND
2	TXD4
3	RXD4

### J31: 4-Wires Touch connector

Pin #	Signal Name
1	Y-
2	X-
3	Y+
4	X+

### J32: USB (WiFi Optional)

Pin #	Signal Name	Pin #	Signal Name
1	VCC	2	USBD2-
3	USBD2+	4	GND
5	GND	6	GND

### PWR: Power Connector (5A)

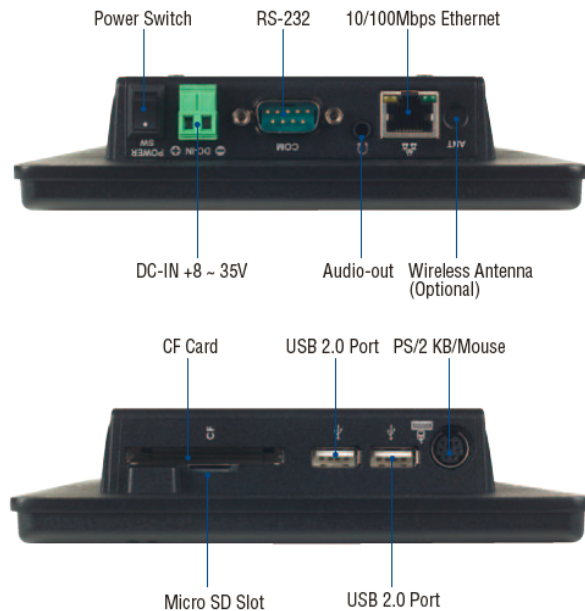
Pin #	Signal Name
1	+5V
2	GND
3	NC
4	GND

### PWR: Power Connector (8A)

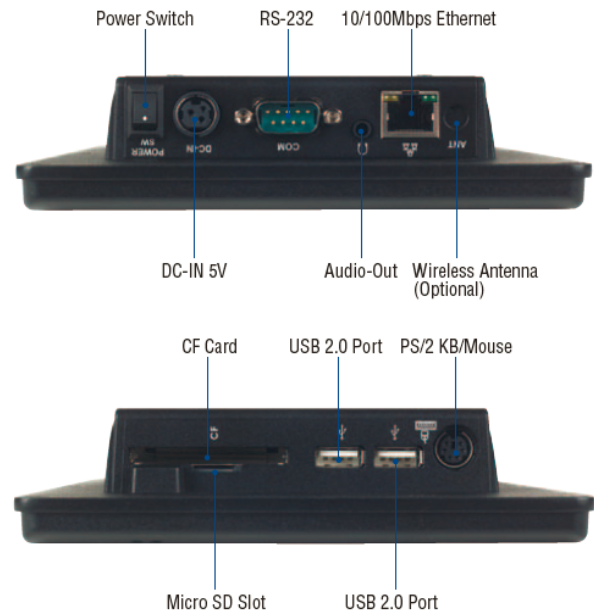
Pin #	Signal Name
1	+ 8 ~ 35V
2	GND

## 2.4 External I/O Overview

### PMX-089T-8A/ PMX-089T-8A-512



### PMX-089T-5A/ PMX-089T-5A-512




(Note1: Wireless is optional)


(Note2: COM1 RS232/422/485 is selected by BIOS setting)

## 2.5 External I/O Pin Assignment

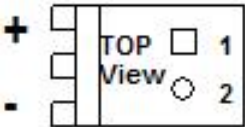
### Power Switch

	Pin #	Status
		ON
	O	OFF

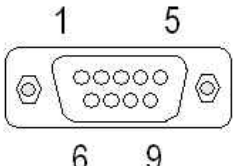
### Power Connector (5A)

	Pin #	Signal Name
	1	+5V
	2	GND
	3	NC


### Power Connector (8A)

	Pin #	Signal Name
	1	+8 ~ 35V
	2	GND

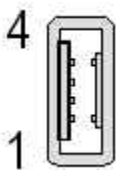
### J10: COM1 RS232/422/485 (Change setting by BIOS)

	Pin #	Signal Name	Pin #	Signal Name
	1	DCD1/422TX-/RS485-	2	RXD1/422TX+/RS485+
	3	TXD1 / 422RX+	4	DTR1 / 422RX-
	5	GND	6	DSR1
	7	RTS1	8	CTS1
	9	RI1		

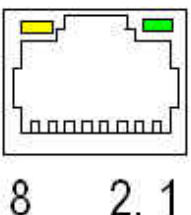
## Audio Line-Out

	Pin #	Signal Name
	1	GND
	2	LOUTL
	3	Open Touch
	4	Open Touch
	5	VREFOUT

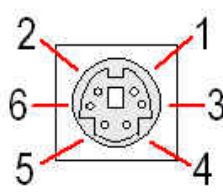
## USB

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

## RJ45

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

## PS/2 Keyboard/Mouse

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

## 2.6 System Mapping

Memory Mapping		
Address	Description	Usage
00000000-0009FFFF	System RAM	*
000A0000-000AFFFF	EGA/VGA Video Memory	*
000B0000-000B7FFF	MDA RAM, Hercules graphics display RAM	*
000B8000-000BFFFF	CGA display RAM	*
000C0000-000C7FFF	EGA/VGA BIOS ROM	*
000C8000-000CFFFF	Boot ROM enable	
000CC000-000CFFFF	Console Redirection enable	
000D0000-000D7FFF	Expansion ROM space	
000D8000-000DBFFF	SPI FLASH Emulation Floppy A Enable	
000DC000-000DFFFF	Expansion ROM space	
000E0000-000EFFFF	USB Legacy SCSI ROM space	
000F0000-000FFFFF	Motherboard BIOS	*
FEBD9000-FEBD90FF	Standard OpenHCD USB Host Controller	*
FEFDA000-FEBDA0FF	Standard OpenHCD USB Host Controller	*
FEBDB400-FEBDB4FF	On board Ethernet Adapter	*
FEBDB800-FEBDB8FF	Standard Enhanced PCI to USB Host Controller	*
FEBDBC00-FEBDBCFF	Standard Enhanced PCI to USB Host Controller	*

I/O Mapping		
I/O Address	Owner	Usage
0000h - 000Fh	DMA 8237-1	*
0010h - 0017h	COM 9	
0020h - 0021h	PIC 8259-1	*
0022h - 0023h	Indirect Access Registers ( 6117D configuration port )	*
002Eh - 002Fh	Forward to LPC BUS	
0040h - 0043h	Timer counter 8254	*

0048h - 004Bh	PWM counter 8254	*
004Eh - 004Fh	Forward to LPC BUS	
0060h	Keyboard / Mouse data port	*
0061h	Port B + NMI control port	*
0062h - 0063h	8051 download 4K address counter	*
0064h	Keyboard / Mouse status / command port	*
0065h	WatchDog0 reload counter	*
0066h	8051 download 8bit data port	*
0067h	WatchDog1 reload counter	*
0068h - 006Dh	WatchDog1 control register	*
0070h - 0071h	CMOS RAM port	*
0072h - 0075h	MTBF control register	*
0078h - 007Ch	GPIO port 0,1,2,3,4 default setup	*
0080h - 008Fh	DMA page register	*
0092h	System control register	*
0098h - 009Ch	GPIO direction control	*
00A0h - 00A1h	PIC 8259-2	*
00C0h - 00DFh	DMA 8237-2	*
00E0h - 00EFh	DOS 4G Page access	*
0170h - 0177h	IDE1 (IRQ 15)	*
01F0h - 01F7h	IDE0 (IRQ 14)	*
0220h - 0227h	COM8 Forward to LPC BUS	
0228h - 022Fh	COM7 Forward to LPC BUS	
0238h - 023Fh	COM6 Forward to LPC BUS	
0278h - 027Fh	Printer port (IRQ 7, DMA 0)	
02E8h - 02EFh	COM4 (IRQ 11)	
02F8h - 02FFh	COM2 (IRQ 3)	
0338h - 033Fh	COM5 Forward to LPC BUS	
0376h	IDE1 ATAPI device control write only register	*
03E8h - 03EFh	COM3 (IRQ 10)	
03F0h - 03F7h	Floppy Disk (IRQ 6, DMA 2)	
03F6h	IDE0 ATAPI device control write only register	*
03F8h - 03FFh	COM1 (IRQ 4)	*
0480h - 048Fh	DMA High page register	*
0490h - 0499h	Instruction counter register	*
04D0h - 04D1h	8259 Edge,/ level control register	*

0CF8h - 0CFFh	PCI configuration port	*
D400h - D4FFh	on board LAN	*
FC00h - FC05h	SPI Flash BIOS control register	*
FC08h - FC0Dh	External SPI BUS control register ( output pin configurable GPIO3[0-3] )	*

## IRQ Mapping

IRQ#	Description	Usage
IRQ0	System Timer	*
IRQ1	Keyboard Controller	*
IRQ2	Cascade for IRQ8 - 15	
IRQ3	Serial Port 2	*
IRQ4	Serial Port 1	*
IRQ5	USB	*
IRQ6	USB	*
IRQ7	USB	*
IRQ8	Real Time Clock	*
IRQ9	USB / Ethernet 10/100M LAN	*
IRQ10	Serial Port 3	*
IRQ11	Serial Port 4	*
IRQ12	Mouse	*
IRQ13	Math Coprocessor	*
IRQ14	Hard Disk Controller#1	*
IRQ15	Hard Disk Controller#2	*

## DMA Mapping

DMA#	Description	Usage
DMA0		
DMA1		
DMA2	Floppy Disk Controller	
DMA3		
DMA5		
DMA6		
DMA7		

## 2.7 Watchdog Timer

There are two watchdog timers in PMX-089T, we also provide DOS, Linux and WinCE example for your reference. For more technical support, please visit: [www.compactpc.com.tw](http://www.compactpc.com.tw) or download the PDF file: <http://www.compactpc.com.tw>



# Chapter 3

## Driver Installation

### VGA

The Vortex86MX processor is integrated RDC Display chip which is an ultra low powered graphics chipset with total power consumption at around 1-1.5 W.

### LAN

The Vortex86MX processor is integrated 10/100Mbps Ethernet controller that supports both 10/100BASE-T and allows direct connection to your 10/100Mbps Ethernet based Local Area Network for full interaction with local servers, wide area networks such as the Internet.

I/O and IRQ settings can be done by software with the supplied utility software, or it can be set for Plug and Play compatibility. The controller supports: Half / Full-Duplex Ethernet function to double channel bandwidth, auto media detection.

### AUDIO

The ALC262 series are 4-Channel High Definition Audio Codecs with UAA (Universal Audio Architecture) featuring two 24-bit stereo DACs and three 20-bit stereo ADCs, they are designed for high performance multimedia desktop and laptop systems. The ALC262 series incorporates proprietary converter technology to achieve over 100dB Signal-to-Noise ratio playback quality; easily meeting PC2001 requirements and also bringing PC sound quality closer to consumer electronic devices.

### Operating system support

The PMX-089T provides the VGA and LAN drivers for Linux, Windows CE, Windows XP Professional, and Windows Embedded standard (XPE). **(Linux can use with Compact Flash card only.)**

Please get the drivers from DMP official website: [www.compactpc.com.tw](http://www.compactpc.com.tw) .

PMX-089T also supports most of the popular Linux distributions, for more detail information, please visit DMP official website: <http://www.dmp.com.tw/tech/vortex86dx/>

## 3.1. PMX-089T Development Note

<Primary /Secondary IDE: Master or Slave>

Micro SD: Primary Master

CF Slot: Secondary IDE: Master or Slave (User can use slide switch (in side of CF slot) to adjust Master or Slave

<Window CE6.0 development guide>

Windows Embedded CE 6.0 BSP, trial CE image and development notes, please visit technical website to get more information: [www.compactpc.com.tw](http://www.compactpc.com.tw)

<Linux installation note>

Please forced the IDE setting in BIOS to PIO mode before install Linux on PMX-089T as follows:

1-Go to the advanced BIOS setting and make the “Onboard IDE Operate Mode” is “Legacy Mode”

2-Go to the PCI/PnP and make the “PCI IDE BusMaster” is “Disable”

< XP professional /Home /Embedded and Windows 2000 installation note >

1-Please visit technical website to get more information: [www.compactpc.com.tw](http://www.compactpc.com.tw)

<Enhance CF to run the UDMA2/4>

1-Please select DMP “ICF Card” to supporting UDMA 2/4 Mode.

<How to boot up from the Micro SD card>

1-Get into the BIOS setup Utility

2-Go to the Advanced

3-Choose Primary IDE Pin Select: SD card

4-Press “F10” to save configuration changes and exit setup

## 3.2. BIOS Default setting

If the system cannot be booted after BIOS changes are made, Please follow below procedures in order to restore the CMOS as default setting.

- Press "End" Key, when the power on



- Press <Del> to enter the AMI BIOS setup
- Press "F9" to Load Optimized Defaults
- Press "F10" to Save configuration changes and exit setup

# Warranty

This product is warranted to be in good working order for a period of one year from the date of purchase. Should this product fail to be in good working order at any time during this period, we will, at our option, replace or repair it at no additional charge except as set forth in the following terms. This warranty does not apply to products damaged by misuse, modifications, accident or disaster. Vendor assumes no liability for any damages, lost profits, lost savings or any other incidental or consequential damage resulting from the use, misuse of, originality to use this product. Vendor will not be liable for any claim made by any other related party. Return authorization must be obtained from the vendor before returned merchandise will be accepted. Authorization can be obtained by calling or faxing the vendor and requesting a Return Merchandise Authorization (RMA) number. Returned goods should always be accompanied by a clear problem description.

# Artisan Technology Group is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at [artisanng.com](https://www.artisanng.com) for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

**We're here to make your life easier. How can we help you today?**

(217) 352-9330 | [sales@artisanng.com](mailto:sales@artisanng.com) | [artisanng.com](https://www.artisanng.com)

