

# PanelVisa

The most **compact** embedded solution, offers all possible applications need...



## **GX080-TFT/GX084-TFT/GX121-TFT**

### **8.0"VGA/8.4"/12.1" SVGA TFT WIN CE Touch Computer**

The GX series adopts most reliable and stable design. With fan-less CPU and CompactFlash™ card, GX series is especially suitable for vibration environments such as transportation, semiconductor etc. In addition, GX series is also bundled with Windows® CE.net, which forms a bridge that lets GX series be an open HMI solution for system integration. Furthermore, GX series also supports Visual Studio Framework 1.1. For connecting other devices, the GX series provides several interfaces: USB, RS-232/422/485, Ethernet, IrDA(options) etc.

#### **FEATURES** ↙

- Fan-less and low power consumption CPU Intel® Xscale PXA255
- 8.0"VGA or 8.4"/12.1" SVGA color TFT LCD
- Windows® CE.net(Version4.2)/Visual Studio Framework 1.1 supported
- 32Mbyte Flash memory on-board
- Slim and compact size design
- Fan-less and CompactFlash™ Type I/II card, suitable for those who need more reliable or use in vibration environments
- NEMA 4 / IP65 compliant front panel
- Supports USB 1.1 host and 1.1 client
- Over-voltage power protection; Isolated DC/DC power supply
- High speed, high performance CPU and high reliability design
- Supports Dual-Display mode
- The OS supports Multi-Language



**CERMATE** Technologies Inc.

[WWW.CERMATE.COM](http://WWW.CERMATE.COM)

A Professional Touch Panel Manufacturer

HMI TOUCH PANEL

WIN CE TOUCH COMPUTER

LCD TOUCH MONITOR

The richest variety of functionality, the most cost effective multimedia-ready board.





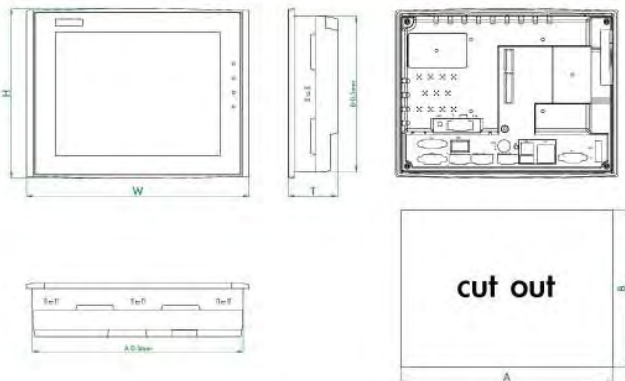
## INTRODUCTION

The GX series is a fan-less and compact-size touch computer. It equips with 8.0"/8.4"/12.1" TFT LCD display, Windows®CE.net(Version4.2) and low power consumption CPU, Intel® XScale PXA255. Therefore, GX series is a good choice for most applications.

## SPECIFICATIONS

**Construction**\_ Metal \_ plastic molding housing  
**Display**\_ 8.0" VGA/8.4" and 12.1" SVGA color TFT LCD  
**CPU and Core Logic**\_ Intel®PXA255 400MHz  
**DRAM**\_ 128MB on board/battery backup SRAM\_ 1MB on board  
**Storage**\_ 32MB flash memory on board, extension 32/64 MB flash memory module (options) ; one CompactFlash™ card slot  
**PS24-30**\_ 30W DC24V/1.2A output power supply  
**LED x4**\_ 1<sup>st</sup> for DC power ; 2<sup>nd</sup> for com1/com2 ; 3<sup>rd</sup> for LAN ; 4<sup>th</sup> for extension module or other option modules  
**RTC**\_ Built in  
**Touch screen**\_ 4-wire or 8-wire (options) analog resistance  
**Resolution**\_ 10 bits  
**Light transmission**\_ above 80%  
**Life**\_ 1 million activation minimal

- ① COM1 (RS-232/422/485) DB9 female connector
- ② COM2 (RS-232) DB9 male connector
- ③ DIP-SW
- ④ COM2 (RS-422/485) 4P terminal
- ⑤ Digital input x2
- ⑥ PS/2 port for keyboard or mouse
- ⑦ Digital out x2
- ⑧ USB client 1.1 for ActiveSync
- ⑨ USB host 1,1
- ⑩ Ethernet port (RJ-45) (10/100 Base-T)
- ⑪ VGA output interface
- ⑫ 1 MIC in
- ⑬ 1 Speaker out
- ⑭ CompactFlash™ slot
- ⑮ Extension bus for special application, ex. Modbus, Profibus, PLC link,...etc
- ⑯ Power input\_ 24VDC, power consumption 0.8A maximum
- ⑰ Software reset button



### OUTLET DIMENSIONS

GX080-TFT: 232.0mm [9.13"] W x 177.4mm [6.99"] H x 63.0mm [2.48"] T  
 GX084-TFT: 232.0mm [9.13"] W x 177.4mm [6.99"] H x 63.0mm [2.48"] T  
 GX121-TFT: 315.0mm [12.40"] W x 241.0mm [9.49"] H x 56.0mm [2.2"] T

### CUTOUT DIMENSIONS

GX080/GX084-TFT: 221mm [8.70"] A x 164mm [6.46"] B  
 GX121-TFT: 302mm [11.89"] A x 228mm [8.97"] B

### NET WEIGHT

GX080-TFT/GX084-TFT: 1.1kg  
 GX121-TFT: 2.6kg

## ENVIRONMENTAL

**Operating temperature**\_ 0°~50°C (32°~ 120°F)  
**Relative humidity**\_ 10% ~ 90% @ 50°C, non-condensing  
**Shock (operation)**\_ 10 to 25Hz (X, Y, Z direction 2G, 30minutes)  
**EMI**\_ Complies with FCC Class B  
**CE**\_ Complies with EN50081-2 and EN50082-2 standards  
**Front panel**\_ Meets NEMA4/IP65

## CERTIFICATIONS

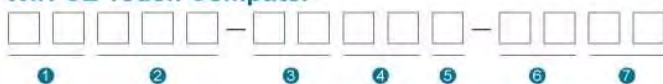
CE and FCC approved

## LCD SPECIFICATIONS

**Display type**\_ TFT color LCD  
**Display size**\_ 8.0"/8.4" and 12.1" (diagonal)  
**Max colors**\_ 65535 colors  
**Resolution**\_ GX080(640x480) ; GX084(800x600); GX121(800 x 600~1024 x 768)  
**Viewing angle**\_ 40/30/50/50 (T/B/R/L)  
**Luminance**\_ 8.0"/400 cd/m<sup>2</sup>; 8.4"/200 cd/m<sup>2</sup>; 12.1"/200 cd/m<sup>2</sup>  
**Storage temperature**\_ -20~60°C  
**Operating temperature**\_ 0~50°C  
**Backlight**\_ GX080/CCFL x1 ; GX084/CCFL x 1 ; GX121/CCFL x 2  
**Contrast ratio**\_ 150:1  
**Interface**\_ TFT LVDS or TTL interface

All the specifications and photos are subjected to be change without notice.

## WIN CE Touch Computer



Taiwan: Cermate Technologies Inc.  
 China: Shenzhen Cermate Technologies Inc.



## ORDERING INFORMATION:

- ① Model GX series; Intel®XScale CPU PXA255
- ② LCD dimension 080=8.0 inches ; 084=8.4 inches ; 121=12.1 inches
- ③ LCD Specification TF = TFT ; DS=DSTN ; CS= Color STN
- ④ T4=4 wire Touch Panel ; T8=8 wire Touch Panel
- ⑤ LCD Brand ; U= AU ; L= LG ; M=Mitsubishi
- ⑥ Front Frame Color ; B0= Black ; C0= White ; D0= Dark Silver ; E0= Light Silver
- ⑦ Customer's Logo ; 00 or None= Cermate logo