TPC-120H

Intel® XScale PXA Touch Panel Computers with 12.1" SVGA TFT LCD Display

Features

- Intel® PXA 270 processor on board
- 12.1" SVGA TFT LCD
- Super slim and compact design with Al-Mg housing
- Fanless cooling system
- NEMA4/IP65 compliant front panel
- Automatic data flow control RS-485
- Supports Microsoft® Windows® CE

T33138

Introduction

TPC-120H models are compact platforms without redundant functions that have been designed for operator inferface applications. Its RISC kernel, Intel PXA, counsumes minimum power without sacrificing performance. With a high quality TFT LCD display, TPC-120H models support two 10/100BASE-T Ethernet ports to offer solid communication ability, and comes bundled with a Windows CE OS to support thin-client solutions.

Specifications

General

- **Certifications** BSMI, CCC, CE, FCC, UL
- **Cooling System** Fanless design
- **Dimensions (W x H x D)** 311 x 237 x 50 mm (12.24" x 9.33" x 1.97")
- **Enclosure** Al-Mg and ABS
- **Mounting** Desktop, swing arm or wall (with mounting kit)
- **OS Support** Windows
- **Power Consumption** 30 W
- **Power Input** 18 ~ 32 V_{DC}
- **Watchdog Timer** 1.6 sec (system)
- **Weight (Net)** 2.2 kg (4.85 lb)

System Hardware

- **CPU** Intel® PXA 270 520 MHz
- **Expansion Slots** 1 x CompactFlash® slot
- **LAN** 2 x 10/100Base-T
- **Memory** 64 MB SDRAM on board
- **Serial Ports** 3 serial ports
  (2 x Full RS-232; 1 x 4-pin RS-232/RS-485)
- **Storage** 64 MB MDOC on board
  1 x CompactFlash card (optional)
- **USB Ports** 2 x USB 1.1
- **Video Ports** 1 x VGA
- **CAN Port** 1 x Isolated CAN 2.0B Interface (Optional)
  CAN Controller: SJA-1000
  CAN Transceiver: 82C250

LCD Display

- **Backlight Life** 50,000 hrs
- **Contrast Ratio** 300:1
- **Display Size** 12.1"
- **Display Type** SVGA TFT LCD
- **Luminance cd/m²** 340
- **Max. Colors** 262 K
- **Max. Resolution** 800 x 600
- **Viewing Angle (H/V)** 100/60

Touchscreen

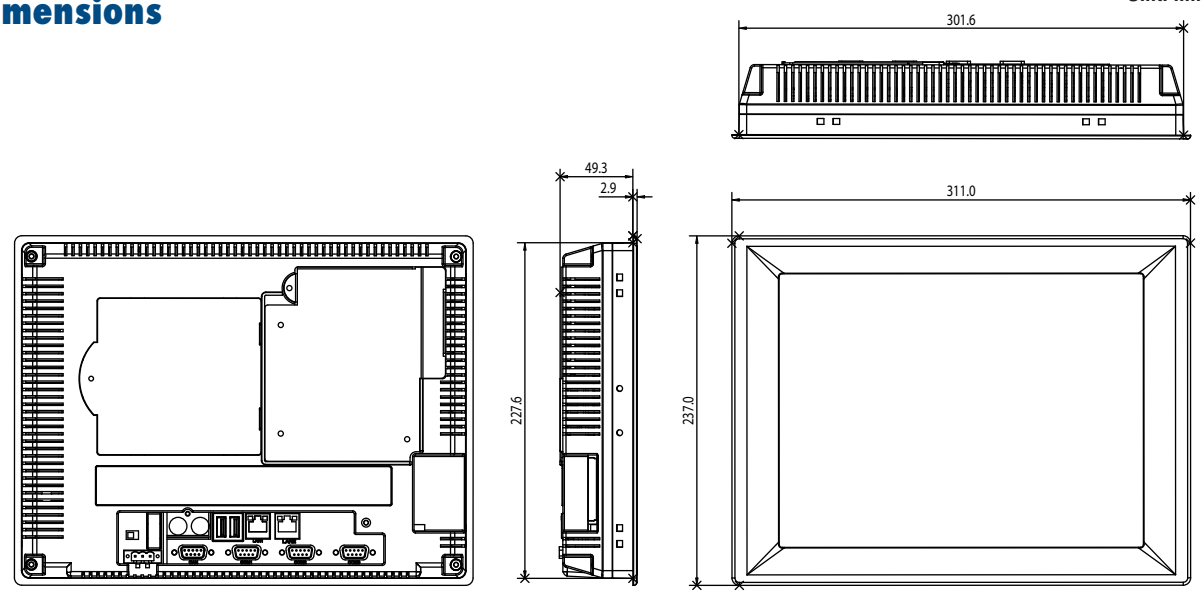
- **Lifespan** 1 million touches at single point
- **Light Transmission** Above 75%
- **Pixel Pitch (H x V)** 0.3075 x 0.3075 mm
- **Resolution** 1024 x 1024
- **Type** 8-wire, analog resistive

Environment

- **Humidity** 10 ~ 95% RH @ 40° C, non-condensing
- **Ingress Protection** Front panel: NEMA4, IP65
- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Vibration Protection** 1 grms (5 ~ 500 Hz)
  (Operating, random vibration)

Dimensions

Unit: mm



Panel Cut-out Dimensions: 302.5 x 228.5 mm

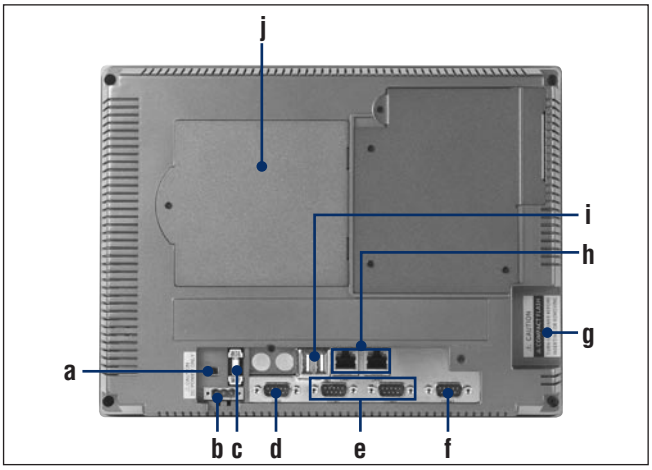
Ordering Information

- **TPC-120H-E2E** 12.1" TFT LCD Display TPC with Intel PXA 520MHz, 64MB SDRAM/64 MB Flash on board and Windows CE 5.0 OS

Accessories

- **TPC-1260 STAND** TPC-1260T/TE desktop stand
- **TPC-1260 WALLMT** TPC-1260T/TE wallmount kit
- **TPC-120CAN-01** CAN-Bus 2.0 module for TPC-120H

Rear View



a. Power
b. Power Receptor
c. Fuse
d. CAN Port
e. COM Port (RS232)
f. COM3 (RS232/485)
g. Compact Flash
h. Ethernet Port
i. USB Port
j. CAN Module Cover