APPC 1520T/1521T

15" TFT LED XGA 4:3 Flush Panel PC with Intel® Atom™ D525, 1.8GHz, Touch Screen, 1GB DDR3, 4xUSB, 4xCOM and VGA

Main Features

- 4:3 15" Fanless LED Panel Computer
- Intel® Atom™ D525, Dual Core, Low Consumption CPU
- Fully flat 5-wire Touch Screen
- Dual GbE; 2nd Display VGA/ Line-in/ Line-out/ MIC-in/ PS2 KB/MS
- USB x 4 / 2 x Mini-PCIe/ 1 x CF/ 2 x RS232/ 422/ 485

- Optional Wi-Fi Module / 2.5"HDD / 2 x COMs / GPIO / CAN Bus
- DDR3 1GB / 2.5" HDD Bracket
- IP65 Compliant Front Panel
- Mounting Support: Panel/ Wall/ Stand/ VESA 100mmx100mm
- Wide Range Power Input 12V~ 30V DC

Product Overview

Incorporated a 15" 4:3 touch screen LCD panel with resolutions up to 1024x768 (XGA) and 350 nits brightness, industrial motherboard for versatile industrial applications, the APPC 1520T is fanless Panel PC based on the Atom™ D525 processor. The Panel PC comes with flush panel design and can have IP65 front for industrial applications. The touch screen provides the durable, reliable, and scratch-able benefits for easy maintenance in wide applications, especially for food and beverage industrial, which require strictly cleaning process.

The APPC 1520T Panel PC has 2GbE LAN, 2 x COMs, 2x USB, PS2 KB/MS, and Line-in/Line-out/MIC-in. With wide range power input from 12V to 30V, the APPC series can have industrial field and machine devices. With 2nd display by VGA, APPC series can hook 2nd display via VGA port with different content. Depending on applications, customers can easily remove rear chassis to implement DDR3 memory, 2.5" HDD and 2 x Mini-PCIe. Based on APPC 1520T model, APPC 1521T has two RS-232/422/485 COM ports with isolation to fit industrial applications plus two additional RS-323 COM ports. In addition, one GPIO port for 4 input/output is available for digital control. There is also an optional CAN bus interface for communication with CAN bus device.

Specifications

Panel
- LED Size: 15", 4:3
- Resolution: XGA 1024x768
- Luminance: 350cd/m2
- Contrast ratio: 500
- LCD color: 16.2M
- Viewing Angle: 65(U), 55(D), 65(L), 65(R)
- Backlight: LED
- Touch screen: Fully flat 5-wire resistive
- Touch light transmission: 80%
- Touch interface: USB

System
- CPU: Intel® Atom™ D525, 1.8GHz
- BIOS: AMI BIOS
- System chipset: Intel® ICH8M
- System memory: 1x 204-pin DDR3 SO-DIMM socket, 1G DDR3 (Default), Support up to 2GB DDR3 800, Non-ECC and Un-buffered
- SSD: one external locked CF socket by IDE support Type I/II compact Flash card
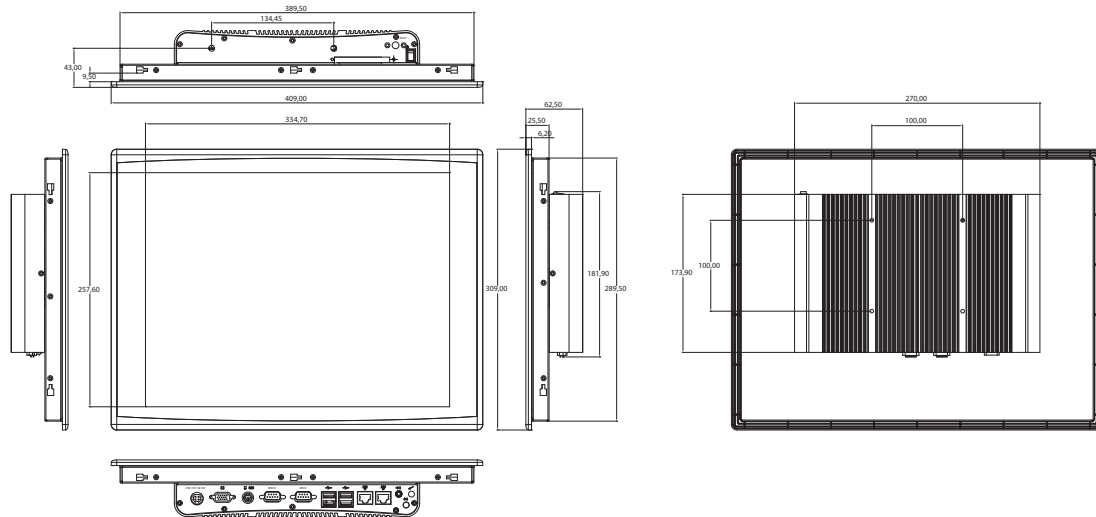- Hard drive bay: optional 2.5" SATA HDD or SATA DOM

- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (Tolerance 15% under room temperature 25°C)
- H/W status monitor: monitoring system temperature and voltage
- Expansion: 2x Mini-PCIe sockets
- NEXCOM Xcare platform system management supported

Rear I/O
- CAN BUS (for APPC1521T Optional)
- GPIO (for APPC1521T only): 4 x digital in / 4 x digital out
- COM #1: RS232/422/485 (APPC 1521T w/ 2.5kv isolated)
- COM #2: RS232/422/485 (APPC 1521T w/ 2.5kv isolated)
- COM #3 & COM #4 (for APPC 1521T only): 2x RS232
- Ethernet: 2 x RJ45
- 2nd display VGA port: 1 x DB15
- Audio port: 1 x Line out; 1 x Line in; 1 x MIC-in
- USB: 4 x USB 2.0
- PS2 keyboard/ mouse
- Power switch
- Reset button

Dimension Drawing

Audio
* AC97 codec: Realtek ALC888
* Audio interface: Line out/Line in/MIC-in Audio Jack

Ethernet
* LAN chip: dual Intel® 82574L Gigabit LAN
* Ethernet interface: 10/100/1000 Based-Tx Ethernet compatible

Mechanical & Environment
* Color: pantone black
* IP protection: IP65 front
* Mounting: panel/ wall/ stand/ VESA 100mm x 100mm
* Power input: 12V~ 30V DC
* Power adapter: Optional AC to DC power adaptor (+12V, 60W)
* Vibration:
  IEC 68 2-64 (w/ HDD)
  0.5Grms @sine, 5~500Hz, 1hr/axis (HDD Operating)
  2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (Non-operating)
* Shock:
  IEC 68 2-27
  HDD: 20G@wall mount, half sine, 11ms
* Operating temperature: -5°C to 50°C
* Storage temperature: -20°C to 75°C
* Operating humidity: 10%~90% relative humidity, non-condensing
* Dimension: 409x309x62.5 mm
* Weight: 5.3 Kg

Certifications
* CE approval
* FCC Class A

Ordering Information

Barebone

* **APPC 1520T (P/N: 10IA1520T00X00)**
  15" TFT LED Panel PC with Intel® Atom™ D525 1.8 GHz, touch screen, 1GB DDR3, COM#1/ #2

* **APPC 1521T (P/N: 10IA1521T00X00)**
  15" TFT LED Panel PC with Intel® Atom™ D525 1.8 GHz, touch screen, 1GB DDR3, COM#1/ #2 w/ isolation, COM#3/ #4, GPIO (CAN bus Optional)

Options

* **12V, 60W AC/DC power adapter w/o power cord (P/N:7400060002X00)**