

APPC 1530T/1531T

15" TFT XGA 4:3 Flush Panel PC with Intel® Atom™ D2550, 1.86GHz, Touch Screen, 1GB DDR3, 4xUSB, 4xCOM and VGA



Main Features

- ♦ 4:3 15" Fanless LED Panel Computer
- ♦ Intel® Atom™ D2550, Dual Core, Low Consumption CPU
- ♦ Flush Panel by 5-wire Touch Screen
- ♦ Dual GbE/ 2nd display-VGA/ Line-in/ Line-out/ MIC-in/ PS2 KB/MS
- ♦ USB x 4/ 2 x mini-PCle sockets/ 1 x CFast/ 2 x RS232/ 422/ 485
- ♦ Optional 3.5G / Wi-Fi Module / 2.5" HDD / 2 x COMs / GPIO / DIO
- ♦ DDR3 1GB / 2.5" HDD Bracket
- ♦ IP65 Compliant Front Panel
- ♦ Mounting Support: Panel/ Wall/ Stand/ VESA 100mm x 100mm
- ♦ Wide Range Power Input 12V~ 30V DC

Product Overview

The 15" fanless panel PC APPC 1530T/ 1531T incorporating an industrial motherboard is intended for versatile industrial applications. The panel PC has a touch screen LED backlight LCD panel with 1024x768 (XGA) resolution and 400-nit brightness. The front panel which adopts flush design and complies with IP65 standard makes it the perfect fit in industrial applications.

The APPC 1530T/ 1531T supports WWAN/WLAN expansion and others via dual Gigabit Ethernet connectors, two mini-PCle slots and one SIM card holder. With support for wide power input of 12V~30V, APPC 1530T/ 1531T can gain a strong foothold in industrial field and machine devices. In addition, APPC 1530T/ 1531T can hook 2nd display via a VGA port for dual independent display. APPC 1531T has two isolated RS232/422/485 ports, two RS232 ports supporting 5V and 12V power feed, four isolated channels of DI and DO, and two channels of GPI and GPO.

Specifications

Panel

- ♦ LED Size: 15", 4:3
- ♦ Resolution: XGA 1024x768
- ♦ Luminance: 400cd/m2
- ♦ Contrast ratio: 700
- ♦ LCD color: 16.2M
- ♦ Viewing Angle: 60 (U), 80(D), 80(L), 80(R)
- ♦ Backlight: LED

Touch

- ♦ Touch screen: 5-wire resistive (flush panel type)
- ♦ Touch light transmission: 80%
- ♦ Touch interface: USB

System

- ♦ CPU: On-board Intel® Atom™ Dual Core processor D2550, 1.86GHz, 1M L2 Cache
- ♦ BIOS: AMI BIOS
- ♦ System chipset: Intel® NM10 Express chipset
- ♦ System memory: 2x 204-pin DDR3 SO-DIMM socket, 1G DDR3 (Default), Support up to 4GB DDR3-800/1066, Non-ECC and Un-buffered

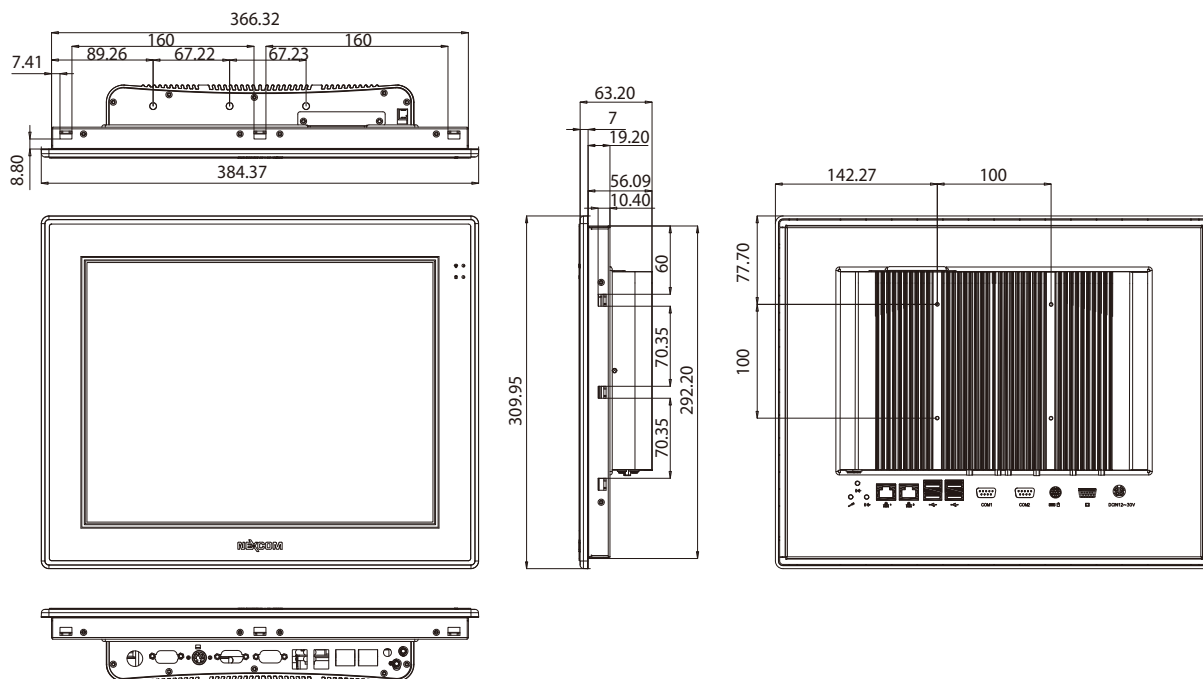
Storage Device:

- 1x external locked CFast socket
- 1x hard drive bay: optional 1x 2.5" SATA HDD or 1x 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℃)
- ♦ H/W status monitor: Monitoring system temperature, and voltage
- ♦ Expansion: 2x Mini-PCle sockets (support optional WiFi or 3.5G module)
- ♦ Panel backlight control button: Increase brightness / decrease brightness / Backlight On/Off (For APPC1531T only)

Rear I/O

- ♦ 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
- ♦ COM #1: RS232/422/485 w/RI or 5V selection

Dimension Drawing



- COM #2: RS232/422/485 w/RI or 12V selection

For APPC1531T only

- DIO w/ 2.5kv isolated:

4x Digital Input (Source type)

- Input Voltage (Dry Contact): Logic 0: Close to GND

- Logic 1: Open

- Input Voltage: Logic 0: 3V max

- Logic 1: +5V ~ +30V

4x Digital Output (Sink type)

- Output Voltage: 3.6V ~ 5V

- Sink current: 200 mA max. per channel

- GPIO: 2 x digital in / 2 x digital out

- COM #1: RS232/422/485 w/ 2.5kv isolated

- COM #2: RS232/422/485 w/ 2.5kv isolated

- COM #3: RS232 w/ RI or 5V selection

- COM #4: RS232 w/ RI or 12V selection

Audio

- AC97 codec: Realtek ALC886-GR

- 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 blackRAL 15 00 front bezel w/ Pantone 400C\RAL 090 80 10 metal style membrane

- 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)

- 1Grms @sine, 5~500Hz, 1hr/axis (HDD Operating)

- 2Grms @sine, 5~500Hz, 1hr/axis (CFAST 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 60°C

- Storage temperature: -20°C to 75°C

- Operating humidity: 10%~90% relative humidity, non-condensing

Limits to be at 90% RH at max 50°C

- Dimension: 384.37 x 309.95 x 63.2 mm

- Weight: 5 Kg

Certifications

- CE approval

- FCC Class A

Ordering Information

Barebone

- **APPC 1530T (P/N: 10IA1530T00X0)**

15" XGA LED Backlight Touch Panel PC, Intel® Atom™ D2550 1.86 GHz, touch screen, 1GB DDR3, 2xRS232/422/485

- **APPC 1531T (P/N: 10IA1531T00X0)**

15" XGA LED Backlight Touch Panel PC, Intel® Atom™ D2550 1.86 GHz, touch screen, 1GB DDR3, 2xRS232/422/485 and 2x2 DIO with isolated protection, 2xRS232, 4x4 GPIO, Brightness adjustment buttons

Options

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