

APPC 1530T/1531T

15" TFT XGA 4:3 Flush Panel PC with Intel® Atom™ D2550,
1.86GHz, Touch Screen, 2GB DDR3, 4 x USB, 4 x COM and VGA



Main Features

- ♦ 4:3 15" XGA 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 2GB/2.5" HDD Bracket
- ♦ IP65 Compliant Front Panel
- ♦ Mounting Support: Panel/Wall/Stand/VESA 100mm x 100mm
- ♦ Wide Range Power Input 12V~30VDC

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 1024 x 768 (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 1024 x 768
- ♦ Luminance: 400cd/m²
- ♦ Contrast ratio: 700
- ♦ LCD color: 16.2M
- ♦ Viewing Angle: 60 (U), 80(D), 80(L), 80(R)
- ♦ Backlight: LED

Touch Screen

- ♦ 5-wire resistive (flush panel type)
- ♦ Light transmission: 80%
- ♦ 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: 2 x 204-pin DDR3 SO-DIMM socket, 2GB DDR3 (Default), Support up to 4GB DDR3-800/1066, Non-ECC and Un-buffered
- ♦ Storage Device:
 - 1 x external locked CFast socket
 - 1 x hard drive bay: optional 1 x 2.5" SATA HDD or 1 x 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: 2 x Mini-PCle sockets (support optional Wi-Fi or 3.5G module)
- ♦ Panel backlight control button: Increase brightness/decrease brightness/Backlight On/Off (For APPC1531T only)

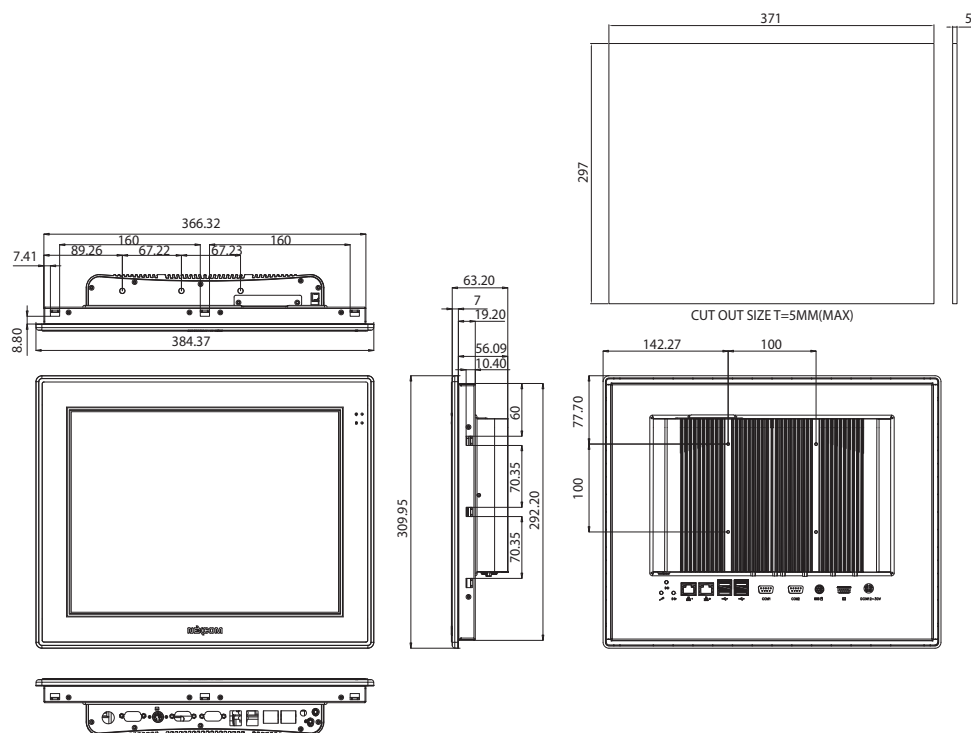
Rear I/O

- ♦ 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 USB2.0
- ♦ PS2 keyboard/mouse
- ♦ Power switch
- ♦ Reset button
- ♦ COM #1: RS232/422/485 w/ RI or 5V selection
- ♦ COM #2: RS232/422/485 w/ RI or 12V selection

For APPC 1531T only

- ♦ DIO w/ 2.5kv isolated:
 - 4 x 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
 - 4 x Digital Output (Sink type)

Dimension Drawing



- 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 black\RAL 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~30VDC
- ♦ 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 63.2mm
- ♦ Weight: 5 Kg

Certifications

- ♦ CE approval

- ♦ FCC Class A

Ordering Information

Barebone

- ♦ **APPC 1530T-2G (P/N: 10IA1530T02X0)**
15" XGA LED Backlight Touch Panel PC, Intel® Atom™ D2550 1.86 GHz, touch screen, 2GB DDR3, 2 x RS232/422/485
- ♦ **APPC 1531T-2G (P/N: 10IA1531T02X0)**
15" XGA LED Backlight Touch Panel PC, Intel® Atom™ D2550 1.86 GHz, touch screen, 2GB DDR3, 2 x RS232/422/485 and 4 x 4 DI/O with isolated protection, 2 x RS232, 2 x 2 GPI/O, Brightness adjustment buttons

Options

- ♦ **12V, 60W AC/DC power adapter w/o power cord**
(P/N: 7400060017X00)