

APPC 1932T

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



Main Features

- ◆ 4:3 19" SXGA 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 x4/ 2x Mini-PCIe sockets/ 1x CFast/ 2x RS232/422/485
- ◆ Fieldbus enable
- ◆ DDR3 4GB/ 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 19" fanless panel PC APPC 1932T incorporating an industrial motherboard is intended for versatile industrial applications. The panel PC has a touch screen LED backlight LCD panel with 1280x1024 (SXGA) resolution. The front panel which adopts flush design and complies with IP65 standard makes it the perfect fit in industrial applications.

The APPC 1932T supports WWAN/WLAN expansion and others via dual Gigabit Ethernet connectors, two Mini-PCIe slots and one SIM card holder. With support for wide power input of 12V~30V, APPC 1932T can gain a strong foothold in industrial field and machine devices. In addition, APPC 1932T can hook 2nd display via a VGA port for dual independent display. APPC 1932T has two isolated RS232/422/485 ports, four isolated channels of DI and DO, and Fieldbus ports.

Specifications

Panel

- ◆ LED Size: 19", 4:3
- ◆ Resolution: SXGA 1280x1024
- ◆ Luminance: 350cd/m²
- ◆ Contrast ratio: 1000
- ◆ LCD color: 16.7M
- ◆ Viewing Angle: 80(U), 80(D), 85(L), 85(R)
- ◆ Backlight: LED

Touch Screen

- ◆ 5-wire resistive (flush panel type)
- ◆ Light transmission: 81%
- ◆ 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, 4GB DDR3 (Default), Support up to 4GB DDR3-800/1066, Non-ECC and Un-buffered

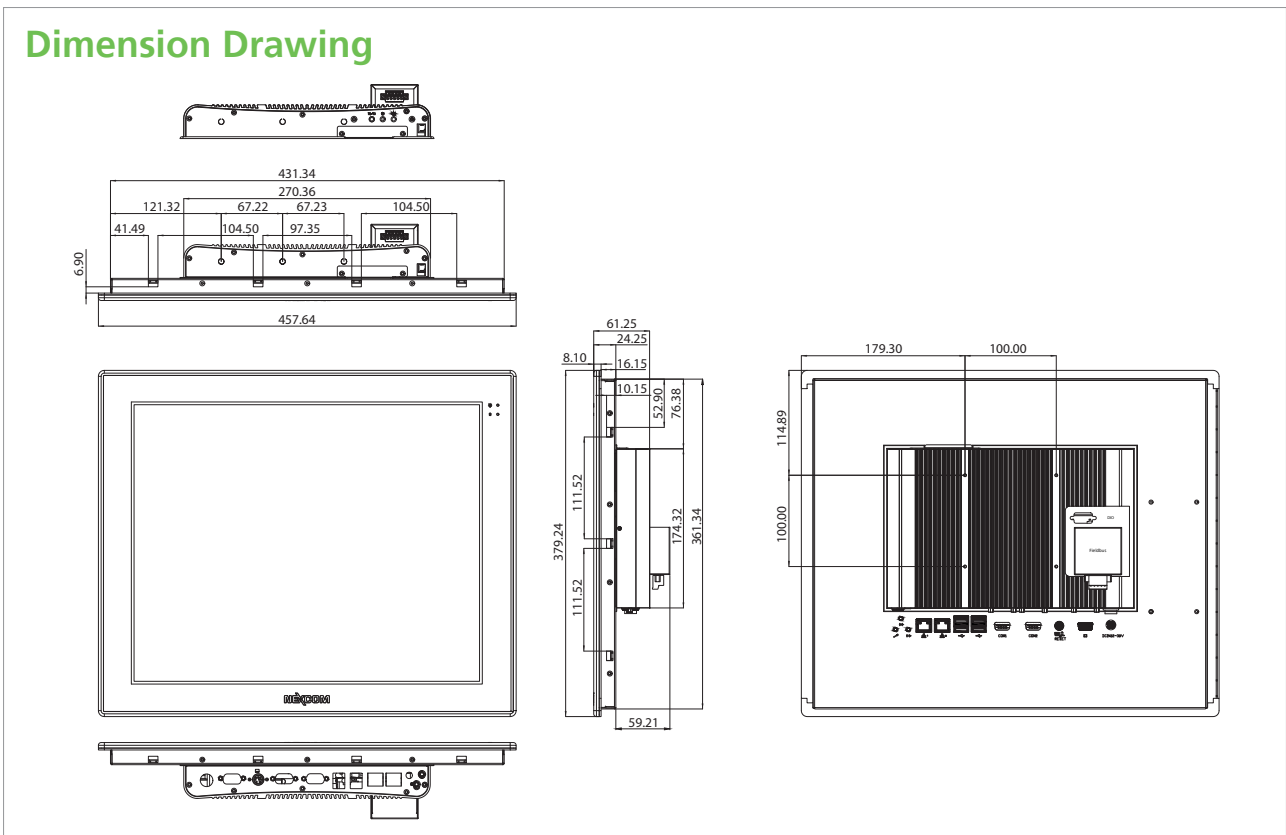
Storage Device:

- 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°C)
- ◆ H/W status monitor: Monitoring system temperature, and voltage
- ◆ Expansion: 2x Mini-PCIe sockets (support optional Wi-Fi, 3.5G module or Fieldbus Card)
- ◆ Panel backlight control button: Increase brightness / decrease brightness / Backlight On/Off

Rear I/O

- ◆ Ethernet: 2x RJ45
- ◆ 2nd display VGA port: 1x DB15
- ◆ Audio port: 1x Line out; 1x Line in; 1x MIC-in
- ◆ USB: 4x USB 2.0
- ◆ PS2 keyboard/ mouse
- ◆ Power switch
- ◆ Reset button
- ◆ DIO w/ 2.5kv isolated: 4x Digital Input (Source type)

Dimension Drawing



- 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
- COM #1: RS232/422/485 w/ 2.5kv isolated
- COM #4: RS232 w/ RI or 12V selection
- Fieldbus: (Protocol interface Optional)

Model	Protocol	Connector
FBI90E-PNM	ProfiNET Master	Dual RJ-45
FBI90E-EP	Ethernet/IP Master	
FBI90E-ECM	EtherCAT Master	
FBI90E-PBM	Profibus Master	DB9
FBI90E-DNM	DeviceNet Master	5-pins Phoenix Contact Terminal

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~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 50°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: 457.64 x 379.24 x 83.5 mm
- Weight: 6.7 Kg

Certifications

- CE approval
- FCC Class A

Ordering Information

Barebone

- **APPC 1932T (P/N: A0IA1932T00X0)**
19" SXGA LED Backlight Touch Panel PC, Intel® Atom™ D2550 1.86 GHz, touch screen, 4GB DDR3, 2xRS232/422/485 and 4x4 DI/O with isolated protection, Brightness adjustment buttons, Fieldbus
- **ProfiNET Master Interface: FBI90E-PNM for APPC (Protocol Option P/N: 88IA1932T00X0)**
- **Ethernet/IP Interface: FBI90E-EP for APPC (Protocol Option P/N: 88IA1932T01X0)**
- **EtherCAT Master Interface: FBI90E-ECM for APPC (Protocol Option P/N: 88IA1932T02X0)**
- **Profibus Master Interface: FBI90E-PBM for APPC (Protocol Option P/N: 88IA1932T03X0)**
- **DeviceNet Master Interface: FBI90E-DNM for APPC (Protocol Option P/N: 88IA1932T04X0)**

Options

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