

APPC 1940T

19" TFT SXGA 4:3 Flush Panel PC with Intel® Celeron® J1900, up to 2.42GHz,
Touch Screen, 4GB DDR3L, 3 x USB, 2 x COM



Main Features

- ◆ 4:3 19" SXGA fanless LED panel computer
- ◆ Intel® Celeron® J1900, Quad Core, low consumption CPU
- ◆ Flush panel by 5-wire touch screen
- ◆ Dual GbE/2nd display-VGA/Line-out
- ◆ 3 x USB/2 x mini-PCIe sockets/1 x CFast/2 x RS232/422/485
- ◆ DDR3L 4GB/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 19" fanless panel PC APPC 1940T incorporating an industrial motherboard is intended for versatile industrial applications. The panel PC has a touch screen LED backlight LCD panel with 1280 x 1024 (SXGA) resolution. The front panel which adopts flush design and complies with IP65 standard makes it the perfect fit in industrial applications.

The APPC 1940T 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 12~30VDC, APPC 1940T can gain a strong foothold in industrial field and machine devices. In addition, APPC 1940T can hook 2nd display via a VGA port for dual independent display. APPC 1940T has two isolated RS232/422/485 ports.

Specifications

Panel

- ◆ LCD size: 19", 4:3
- ◆ Resolution: SXGA 1280 x 1024
- ◆ 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® Celeron® Quad Core processor J1900, up to 2.42GHz, 2M L2 cache
- ◆ BIOS: AMI BIOS
- ◆ System memory: 2 x 204-pin DDR3L SO-DIMM socket, 4GB DDR3L (default), support up to 8GB DDR3L-1066/1333, 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-PCIe sockets (support optional Wi-Fi, 3.5G module)

Rear I/O

- ◆ Ethernet: 2 x RJ45
- ◆ 2nd display VGA port: 1 x DB15
- ◆ Audio port: 1 x Line-out
- ◆ USB: 2 x USB 2.0, 1 x USB 3.0
- ◆ Power switch
- ◆ Reset button
- ◆ 2-Pin remote power on/off switch
- ◆ COM #1: RS232/422/485 w/2.5kv isolated
- ◆ COM #2: RS232/422/485 w/2.5kv isolated

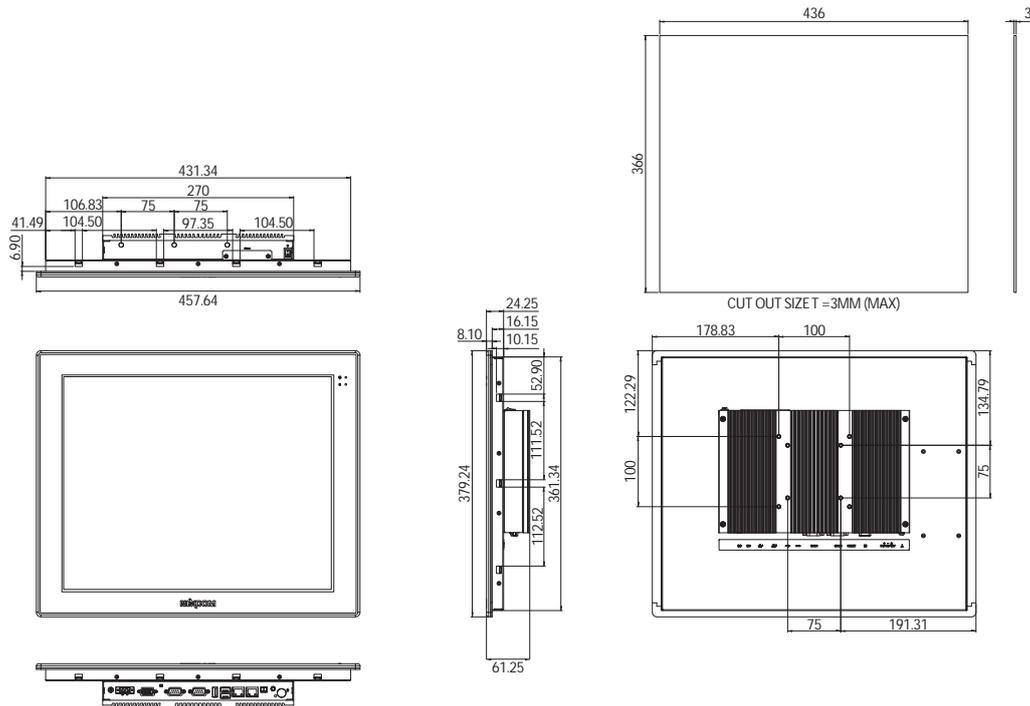
Audio

- ◆ HD audio codec: realtek ALC886-GR
- ◆ Audio interface: Line-out

Ethernet

- ◆ LAN chip: dual Intel® I210AT Gigabit LAN
- ◆ Ethernet interface: 10/100/1000 Base-Tx Ethernet compatible

Dimension Drawing



Mechanical & Environment

- Color: Pantone black\RAL 15 00 front bezel w/ Pantone 400C\RAL 090 80 10 metal style membrane and black silver PC box
- IP protection: IP65 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power input: 12V~30VDC
- Power adapter: optional AC to DC power adapter (+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~50°C
- Storage temperature: -20°C~60°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 61.25 mm
- Weight: 6.3Kg

Certifications

- CE approval
- FCC Class A

OS Support Lists

- Windows 10 64-bit
- Windows 8 32-bit/64-bit
- Windows 7 32-bit/64-bit
- WinCE 7.0

Ordering Information

Barebone

- **APPC 1940T-C (P/N: 10IA1940T10X0)**
19" SXGA LED backlight touch panel PC, Intel® Celeron® J1900 up to 2.42GHz, touch screen, 4GB DDR3L, 2 x RS232/422/485

Options

- **12V, 60W AC/DC power adapter w/o power cord (P/N: 7400060031X00)**