Main Features

- 19” SXGA Fanless Panel Computer
- Intel Atom® E3826/ Celeron™ J1900, low power consumption CPU
- 1000 nits High brightness
- PS2 KB/MS/Line-out/ Dual GbE/ 3x USB
- 2 x RS232/422/485/2nd display-VGA/ 2 x Mini-PCIe sockets/ 1 x CFast
- Remote power switch
- DDR3L 4GB/2.5” HDD bracket
- Support JMobile HMI and CODESYS SoftLogic (optional)
- Mounting support: Panel/Wall/Stand/VESA 100mm x 100mm
- Wide range power input 12~30VDC

Product Overview

Incorporated a 19” 4:3 touch screen LCD panel with resolutions up to 1280 x 1024 (SXGA) and 1000 nits high brightness. It is specially designed with bezelless display which allows customers to design front bezel according to their application requirements without any limitation. The OPPC 1940T Series are fanless Panel PC based on the Atom® E3826/ Celeron™ J1900 processor. The OPPC 1940T Series 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, OPPC 1940HT-J1900 can gain a strong foothold in industrial field and machine devices. In addition, OPPC 1940T Series can hook 2nd display via a VGA port for dual independent display. OPPC 1940T Series has two isolated RS232/422/485 ports.

Specifications

Panel

- LED size: 19”, 4:3
- Resolution: S XGA 1280x1024
- Luminance: 350 cd/m²
- Contrast ratio: 1000:1
- LCD color: 16.7M
- Viewing angle: 80(U), 80(D), 85(L), 85(R)
- Backlight: LED

Touch

- 5-wire resistive
- Touch light transmission: 80%
- Touch interface: USB

System

- CPU: On-board Intel Atom™ Dual Core processor E3826, 1.46GHz, 1M L2 Cache/Intel® Celeron™, Quad core processor J1900, 2.0GHz, 2M L2 Cache
- BIOS: AMI BIOS
- System memory: 2 x 204-pin DDR3L SO-DIMM socket, 4GB DDR3L (Default), Support up to 8GB(4GB+4GB) 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 WiFi, 3.5G module)

Rear I/O

- PS2 keyboard/mouse
- Audio port: 1 x Line-out
- Remote power switch
- Ethernet: 2 x RJ45
- USB: 2 x USB2.0; 1 x USB3.0
- COM #1: RS232/422/485
- COM #2: RS232/422/485
- Reset button
- 2nd display VGA port: 1 x DB15
- Power switch

Audio

- HD Codec: Realtek ALC886-GR
- Audio interface: Line-out/Line-in (Optional)/MIC-in (Optional) audio Jack

Ethernet

- LAN chip: dual Intel® i210AT Gigabit LAN
- Ethernet interface: 10/100/1000 based-Tx Ethernet compatible

Mechanical & Environment

- Mounting: Panel/Wall/Stand/VESA 100mm x 100mm
- Power input: 12~30VDC
- Power adapter: Optional AC to DC power adapter (+12V, 60W)
**Dimension Drawing**

- **Vibration:**
  - IEC 68-2-64 (w/HDD)
  - 1Gms @ sine, 5–500Hz, 1hr/axis (HDD operating)
  - 2Gms @ sine, 5–500Hz, 1hr/axis (CFast operating)
  - 2.2Gms @ 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:** 422.6(W) x 350.6(H) x 73.2(D)mm
- **Weight:** 6.15Kg

**Certifications**
- CE approval
- FCC Class A

**OS Support Lists**
- Windows 8 32bit/64bit
- Windows 7 32bit/64bit
- WinCE 7.0

**Ordering Information**

**Barebone**
- **OPPC 1940T (P/N: 90IQ1940T00X0)**
  19" TFT XGA 4.3 Fanless Open Frame PC with Intel® Atom™ E3826
  1.46GHz, Touch Screen, 4GB DDR3L, 3 x USB, 2 x COM and VGA
- **OPPC 1940T-J1900 (P/N: 90IQ1940T01X0)**
  19" TFT XGA 4.3 Fanless Open Frame PC with Intel® Celeron™ J1900,
  2.0GHz, Touch Screen, 4GB DDR3L, 3 x USB, 2 x COM and VGA

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