

APPC 1960-A01

19" TFT SXGA 4:3 Flush Panel PC with Intel® Processor N97, Resistive Touch Screen, 8GB DDR5, 3 x COM, 2 x USB, 1 x USB-C



Main Features

- 4:3 19" SXGA fanless LED panel computer
- Intel® Processor N97, Quad Core 2.0GHz, 6M Cache
- Flush panel by 5-wire touch screen with slim bezel
- 1 x DDR5-4800MHz with default 8GB installed
- Additional 2nd Display: 1 x DP / 1 x USB-C
- Dual Intel® 2.5GbE LAN ports, 2 x USB 3.2, 1 x Line-out
- 2 x RS232/422/485, 1 x RS232, 1 x mini-PCIe, 2 x M.2
- IP65 compliant front panel
- Mounting support: panel/wall/stand/VESA 100mm x 100mm
- DC power input 24VDC

Product Overview

The new 19" SXGA fanless panel PC APPC 1960-A01 incorporating an industrial motherboard is intended for versatile industrial applications. APPC 1960-A01 supports 1280 x 1024 (SXGA) resolution and 350cd/m² brightness. The front panel which adopts flush, narrow boarder design and complies with IP65 standard to makes it perfectly fit in industrial applications.

APPC 1960-A01 contains dual 2.5 Gigabit Ethernet connectors, one mini-PCIe slot and two M.2 slots to support multiple networks of LAN/WLAN/WWAN (5G) and storage. In addition, APPC 1960-A01 can hook 2nd display via DP and USB-C for dual independent display. Two adjustable RS232/422/485 ports. It is ideal for general industrial equipment integration.

Specifications

Panel

- LCD size: 19", 4:3
- Resolution: SXGA 1280 x 1024
- Luminance: 350cd/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 (flush panel type)
- Light transmission: 80%
- Interface: USB

System

- CPU: Onboard Alder Lake N Intel® processor N97
- BIOS: AMI BIOS
- Supports Intel® Platform Trust Technology (Intel® PTT)
- System memory: 1 x 262-pins DDR5 SO-DIMM socket, support up to Max. 16GB DDR5 4800MHz (non-ECC)
- Storage device
 - 1 x M.2 2242 Key B (SATA)

Rear I/O interface

- Power button
- 1 x 2-pin remote power on/off Terminal Block
- 24V DC input with 3-pins Terminal Block
- 2 x USB 3.2 Type A
- Ethernet: 2 x RJ45
- 1 x DP1.4a (up to 4K@60Hz)
- 1 x USB Type C (Support USB 3.2 / DP1.4a Alt. mode, up to 4K@60Hz)
- DB9 for COM1 & COM2
 - COM1: RS232/422/485 auto flow control
 - COM2: RS232/422/485 auto flow control
- 1 x DB9 for RS232 support
- 1 x Line-out

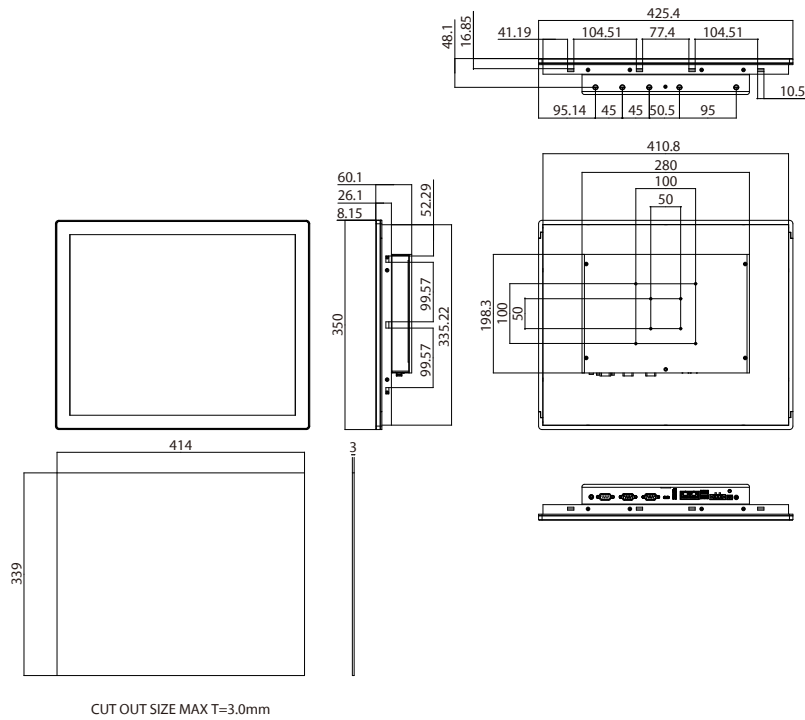
Ethernet

- LAN chip: dual Intel® I226-IT Gigabit LAN
- Ethernet interface: 10/100/1000/2500Base-T Ethernet compatible
- Support WoL and PXE

Audio

- HD audio codec: Realtek ALC888S-VD
- Audio interface: Line-out

Dimension Drawing



Internal Slot

- 1 x mini-PCIe (PCIe x1, USB 2.0, SIM) for Wi-Fi/FBI/LTE
- 1 x M.2 2242 Key B (SATA) for storage
- 1 x M.2 2230/3042/3052 Key B (PCIe x1, USB 3.0, USB 2.0, SIM) for 5G/LTE
- 1 x nano SIM card slot onboard
- 1 x USB 2.0 Type A

Mechanical & Environment

- Color: Pantone 400C\RAL 090 80 10 aluminum front bezel and black silver PC box
- IP protection: IP65 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power:
 - Power input: 24V DC \pm 20%
 - AT/ATX power mode (default: ATX power mode)
 - Power adapter: optional AC to DC power adapter (24V DC, 60W)
- Vibration:
 - 2G@sine, 5-500Hz, 1hr/axis (M.2 operating), IEC60068-2-6
 - 2Grms@random condition, 5-500Hz, 1hr/axis (non-operating), IEC60068-2-64
- Shock:
 - 20G@wall mount, half sine, 11ms, IEC60068-2-27
- Temperature:
 - Operating temperature: 0°C to 50°C (ambient with air flow)
 - Storage temperature: -20°C to 75°C
- Operating humidity: 10% to 90%, non-condensing (limits to be at 90% RH at max 50°C)
- Dimension: 425.4 x 350 x 60.1 mm
- Weight: 6kg

Certifications

- CE approval (EN55032, EN55035)
- FCC Class A

OS Support Lists

- Windows 10 64-bit

Ordering Information

Barebone

- **APPC 1960-A01 (P/N: 10IA1960C01XE)**
19" SXGA LED backlight touch panel PC, Intel® N97 up to 3.6GHz, touch screen, 8GB DDR5, 2 x RS232/422/485, 1 x RS232, 2 x Intel® I226-IT Gigabit LAN

Options

- **24V, 60W AC/DC power adapter w/o power cord (P/N: 7400060054X00)**