

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-inch SXGA fanless panel PC APPC 1960-A01, featuring an industrial motherboard, is designed for versatile industrial applications.

APPC 1960-A01 supports 1280 x 1024 (SXGA) resolution and 350 cd/m2 brightness. Its front panel, with a flush, narrow bezel design, complies with the IP65 standard, making it well-suited for industrial environments.

APPC 1960-A01 includes dual 2.5 Gigabit Ethernet connectors, one Mini PCIe slot, and two M.2 slots to support multiple networks, including LAN, WLAN, and WWAN (5G), as well as various storage options. Additionally, APPC 1960-A01 can connect to a second display via DP and USB-C for dual independent display. Two adjustable RS232/422/485 ports are also available.

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
- ♦ Support TPM 2.0
- ♦ System memory: 1 x DDR5 SO-DIMM, 8G memory (pre-installed)
- ♦ 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-pin 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

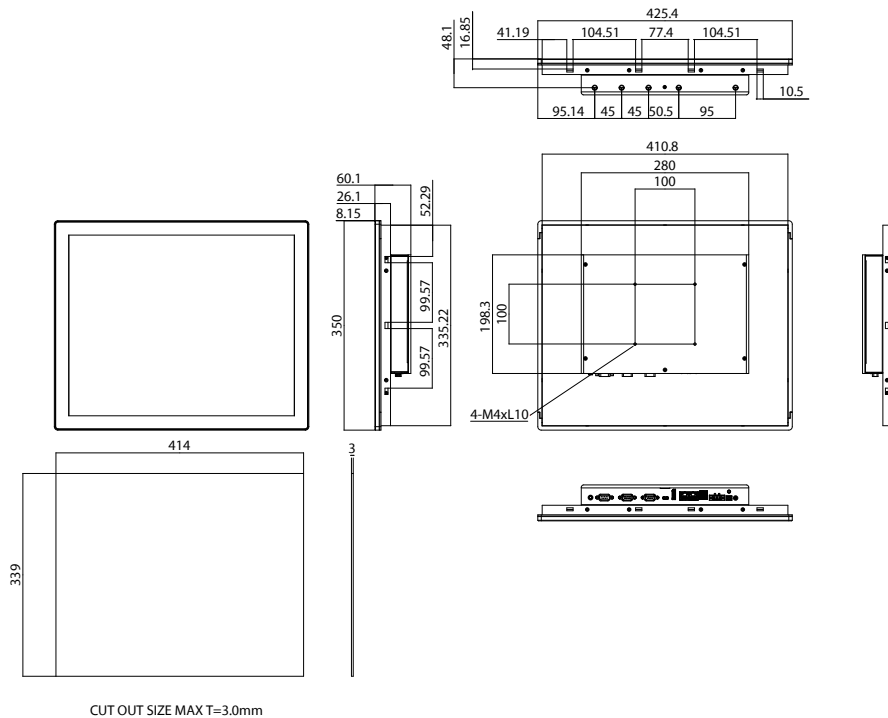
Ethernet

- ♦ 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 (Panel Mounting operating), IEC 60068-2-64
 - 2Grms @ random condition, 5~500Hz, 0.5hr/axis (Panel Mounting operating), IEC60068-2-64
 - 1G@ sine, 5~500Hz, 1hr/axis (VESA Mounting operating), IEC 60068-2-64
 - 1Grms @ random condition, 5~500Hz, 0.5hr/axis (VESA Mounting operating), IEC 60068-2-64
- ♦ 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 11
- ♦ 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)**