

APPC160 C21-01

15.6" FHD Multiple-Purpose Panel PC with Intel® Core Ultra5 125U,
Multi-Touch Screen, 8GB DDR5, 1 x COM, 4 x USB 3.2, 4 x GbE LAN



Main Features

- 16:9 15.6" FHD fanless panel computer with narrow-bezel display
- Intel® Core™ Ultra 5 125U, 1.3 GHz, 12C/14T, TDP 15W
- 10-point P-Cap multi-touch with IP65-rated front panel
- 8GB DDR5 5600MHz installed, optional support up to 32GB non-ECC
- Additional Display: 1 x HDMI® 1.4
- 4 x Intel® GbE LAN ports, 4 x USB 3.2 Gen1
- 1 x RS-232/485, 1 x Mini PCIe, 2 x M.2 (Key M & Key E)
- Mounting support: VESA 100 / Wall Mount
- DC power input 12V/19V/24V DC

Product Overview

The APPC C21-01 Series, available in 15.6-inch (APPC160) and 21.5-inch (APPC210) models, is a new generation of fanless panel PCs powered by Intel® Core™ Ultra 5 125U processor. Combining high-efficiency AI-edge computing with a slim, modular chassis design, it delivers reliable performance for industrial automation, smart manufacturing, and control applications.

Featuring a full HD slim-bezel display, 10-point P-Cap touch, and IP65-rated front panel, the APPC C21-01 ensures durability and intuitive operation in harsh environments. With 4 x GbE LAN, multiple USB ports, COM (RS-232/485), and flexible M.2 / Mini PCIe expansion, it offers broad connectivity for industrial peripherals and wireless modules. Supported by Windows 10/11 Enterprise and Linux, this series combines fanless reliability, long lifecycle support, and compliance with CE, FCC Class A standards — making it an ideal platform for next-generation HMI and edge applications.

Specifications

Processor

- Intel® Core™ Ultra processors (Series 1)
 - Ultra 5 125U (1.3 GHz, 12C/14T, TDP 15W)

Panel

- LCD size: 15.6", 16:9
- Resolution: FHD 1920x1080
- Brightness: Up to 400nits
- Contrast ratio: 1000:1
- LCD Color: 16.7M
- Viewing angle: 178(H)/178(V)
- Touch Type: Ten-point projective capacitive touch screen
- Light transmission: 85%
- Surface Hardness: 7H
- Interface: USB

Memory

- 1 x DDR5 5600MHz SO-DIMM, non-ECC, default 8GB, up to 32GB

Storage

- 1 x M.2 Key M 2280 SSD (PCIe 4.0 x4)

I/O Interface Rear

- 4 x USB 3.2 Gen1
- 4 x GbE RJ45 port, Intel® I210

- 1 x HDMI® 1.4, up to 3840x2160@30Hz
- 1 x COM port (DB9), supports RS-232 (default)/485, signal select via jumper
- 1 x Power button with power LED
- 1 x DC12/19/24V power input via 2x2 pin terminal block

Expansion Slot

- 1 x M.2 Key E, 2230 (PCIe x1 + USB 2.0)
 - Support Wi-Fi/BT module
- 1 x Mini PCIe (PCIe x1 + USB 2.0)

System Capabilities

- TPM 2.0

Antenna Hole

- 4 x Antenna for wireless communication expansion

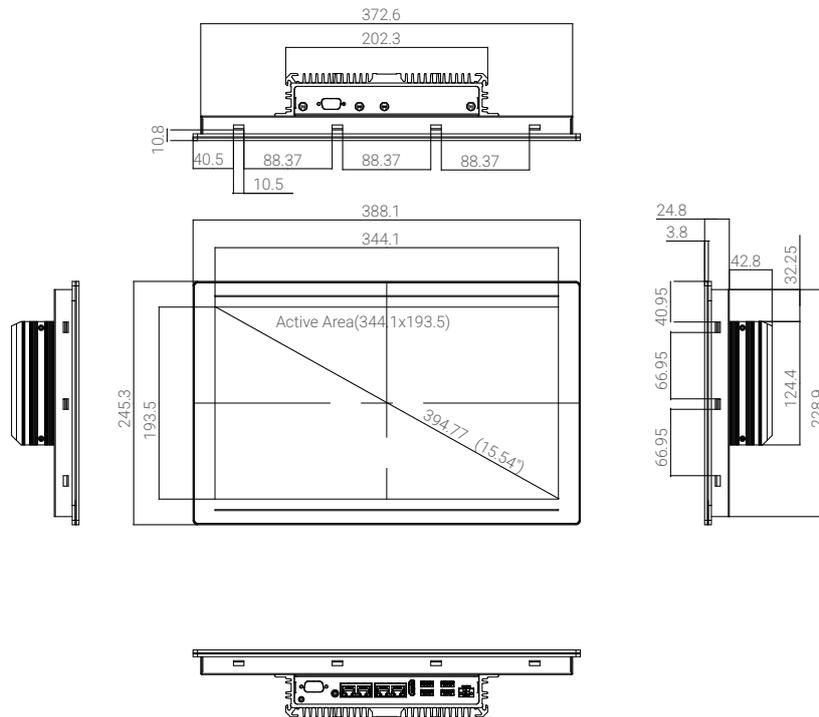
Power Supply

- DC 12V/19V/24V input

Mechanical

- Dimensions: 388.1mm (W) x 245.3mm(D) x 67.6mm(H)
- Cutout: 375.1mm x 231.4mm
- Color: Pantone 400C black silver
- Mounting: VESA 100/Wall Mount

Dimension Drawing



Environment

- Vibration:
 - 2G@sine, 5-500Hz, 1hr/axis (M.2 operating), IEC 60068-2-6
 - 2Grms@random condition, 5-500Hz, 1hr/axis (non-operating), IEC 60068-2-64
- Shock:
 - 20G@wall mount, half sine, 11ms, IEC 60068-2-27
- Temperature:
 - Operating temperature: 0°C~50°C (ambient with air flow)
 - Storage temperature: -20°C~75°C
- Operating humidity: Up to 90%, non-condensing

Certifications

- CE approval (EN 55032, EN 55035)
- FCC Class A

Operating System

- Windows 11 IoT
- Windows 10 IoT, 64bit
- Linux Ubuntu

Ordering Information

Barebone

♦ APPC160 C21-01

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Options

60W 24V/2.5A w/4PIN PHOENIX CONTACT(DINKLE:0159-0104)