XPPC 16-201

15.6" TFT FHD 16:9 Slim Bezel Embedded Touchscreen Computer
Powered by Intel® Core™ Ultra Processor (Series 1)





Main Features

- 15.6" TFT FHD 16:9 panel
- 10-point PCAP multi-touch with slim bezel design
- IP66 protection on the front
- VESA/panel mount/open frame supported
- Intel® Core™ Ultra processor (Series 1)
- 2 x DDR5 SO-DIMM, up to 96GB
- 1 x M.2 Key B 3042/3052 for an optional 5G/LTE module
- 1 x M.2 Key E 2230 for an optional Wi-Fi module
- 1 x M.2 Key M 2280 for an optional SSD
- Support DC 12V power input

Product Overview

The 15.6" embedded fanless panel PC XPPC 16-201, embedded with an industrial motherboard, is intended for vertical industrial applications. The XPPC 16-201 features an industrial-grade panel with 1920x1080 (FHD) resolution and 450-nit brightness. The front panel adopts a slim bezel design and complies with the IP66 rating. Its flexible mounting options make it the perfect fit for industrial applications.

The XPPC 16-201 is powered by Intel® Core™ Ultra processor. With built-in Intel® UHD Graphics, it is available for AI inference, enhancing visual quality and graphics performance. With rich I/O of three USB 2.0 ports, one USB 3.2 port, two LAN ports, delivering speeds of up to 2.5Gbps, and one COM port, it fulfills the demands of various edge computing applications. The XPPC 16-201 is ideal for diverse applications, such as self-service kiosks, smart retail, and payment machines.

Specifications

Panel

- LCD size: 15.6", 16:9
- Resolution: 1920x1080 (FHD)
- Luminance
  - LCD panel: industrial grade 450 nits
  - XPPC PCAP touch: 90% of panel's luminance after optical bonding
- Contrast ratio: 1000:1
- LCD color: 16.7M
- Viewing angle: 89 (U), 89 (D), 89 (L), 89 (R)
- Touchscreen
  - 10-point PCAP (projected capacitive touch)
  - Optical bonding
  - Glass surface treatment: AF

Processor

- Intel® Core™ Ultra processor (Series 1)

Integrated Graphics

- Intel® UHD Graphics

System Capabilities

- TPM 2.0

Memory

- 2 x DDR5 SO-DIMM, non-ECC, up to 96GB

Storage

- 1 x M.2 Key M 2280 SSD (PCIe 4.0 x4, SATA 3.0)

Expansion Slot

- 1 x M.2 Key B 3042/3052
  - Support an optional 5G/LTE module (PCIe 4.0 x1, USB 3.2, USB 2.0)
- 1 x M.2 Key E 2230
  - Support an optional Wi-Fi module (PCIe 4.0 x1, USB 2.0)

I/O Interface Front

- 2 x Antenna hole

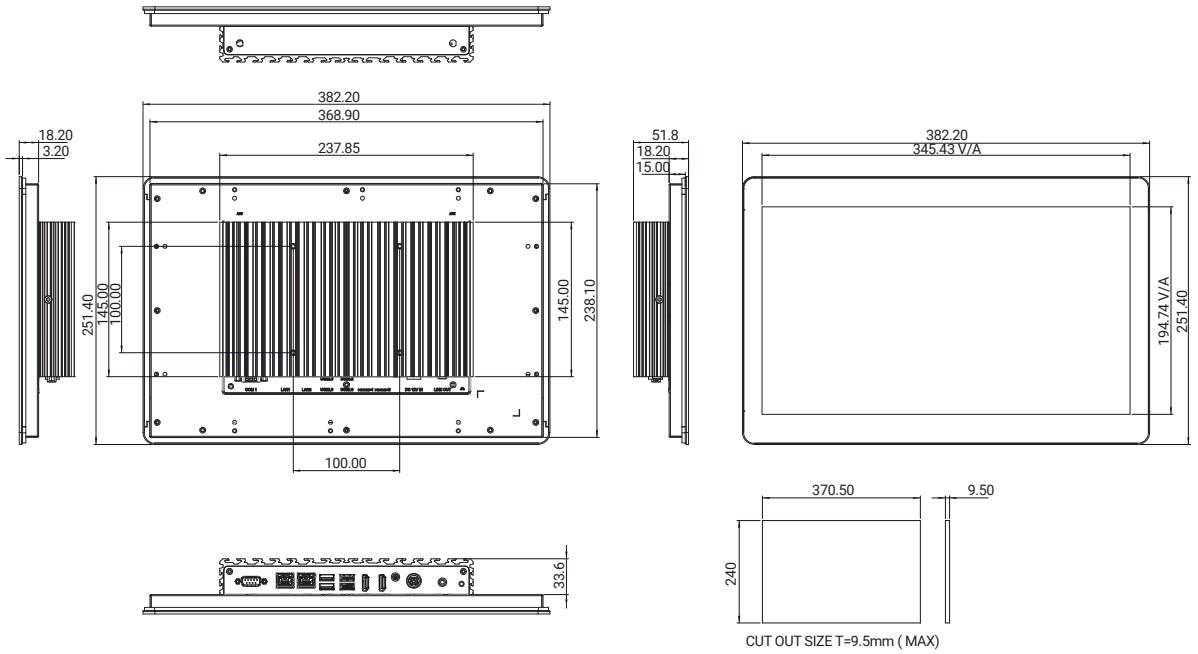
I/O Interface Rear

- 1 x DC 12V power input
- 1 x 1GbE RJ45 port, Intel® I219-LM
- 1 x 2.5GbE RJ45 port, Intel® I226-V
- 2 x HDMI® 2.0, up to 3840x2160@60Hz
- 1 x USB 3.2 Gen 1x1, Type-A
- 3 x USB 2.0, Type-A
- 1 x COM port, supports RS-232/422/485
- 1 x Line out
- 1 x Power button

I/O Interface Internal

- 2 x 6-pin header for 4 x USB 2.0 port
- 1 x 10-pin header for 4-in & 4-out GPIO
- 1 x 9-pin header for RS-232 (COM2)
- 1 x 3-pin jumper for LCD panel voltage 3.3V/5V setting
- 1 x DC Power thru one 2-pin pitch=3.96mm ATX connector (lockable)

Dimension Drawing



Mechanical

- Dimensions: 382.2mm (W) x 251.4mm (D) x 51.8mm (H)
- Net weight: 2.84kg
- Mounting type:
  - VESA Mount 100mm x 100mm
  - Panel Mount (optional kit, 10 brackets and 10 screws needed)
  - Open Frame (optional kit)

Package Information

- Dimensions: 481mm (W) x 361mm (D) x 220mm (H)
- Gross weight: 4.5kg (1 unit per carton)

Environment

- Temperature:
  - Ambient with air flow: 0°C~50°C
  - Storage temperature: -20°C~80°C
- Relative humidity: 0%~90% (non-condensing)
- Shock protection: 20g peak acceleration, 11ms according to IEC 60068-2-27
- Vibration protection
  - Random: 2.2Grms@5Hz~500Hz, 0.5hr/axis (non-operating), IEC 60068-2-64
  - Sinusoidal: 2Grms@5Hz~500Hz, 1hr/axis, IEC 60068-2-6

Power Supply

- DC 12V power input
  - 1 x 12V, 96W AC/DC lockable adapter included in accessory

Certifications

- CE (EMC EN 55035 + EN 55032)
- FCC Class A (EMI Part 15B)
- LVD (EN 62368-1)

Operating System

- Windows 11
- Windows 10, 64bit
- Linux

Ordering Information

Barebone

- **XPPC16-201-125U (P/N: 10W30XPPC53X0)**

  15. 6" FHD LED 10-point PCAP touchscreen computer, Intel® Core™ Ultra 5 processor 125U, w/ optical bonding

- **Panel mount kit (P/N: 10W30XPPC02X0)**
- **Open frame kit (P/N: 88W30XPPC12X0)**

We reserve the right to change specifications and product descriptions at any time without prior notice.