XPPC 16-105N97

15.6" TFT FHD 16:9 Slim Bezel Embedded Touchscreen Computer
Powered by Intel® Core™ Processor N97





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® processor N97
- 1 x DDR5 SO-DIMM, up to 16GB
- 1 x M.2 Key M 2242 for storage
- 1 x Full-size Mini PCIe for a Wi-Fi module
- Support DC 12V~24V power input

Product Overview

The 15.6" embedded fanless panel PC XPPC 16-105N97, embedded with an industrial motherboard, is intended for vertical industrial applications. The XPPC 16-105N97 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 16-105N97 is powered by Intel® processor N97. With built-in Intel® UHD Graphics, it delivers enhanced visual quality and graphics performance. With rich I/O of two USB 2.0 ports, two USB 3.2 ports, two 2.5GbE LAN ports, and one COM port, it fulfills the demands of various edge computing applications. The XPPC 16-105N97 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: AS (anti-smudge coating for easy cleaning)

Processor

- Intel® processor N97

Integrated Graphics

- Intel® UHD Graphics

System Capabilities

- TPM 2.0

Memory

- 1 x DDR5 SO-DIMM, non-ECC, up to 16GB

Storage

- 1 x M.2 Key M 2242 NVMe SSD (PCIe 3.0 x1, SATA 3.0)

Expansion Slot

- 1 x Mini PCIe
  - Support an optional Wi-Fi/BT module or an optional storage module (mSATA)

I/O Interface Front

- 2 x Antenna hole
- 1 x reserved COM port, supports RS-232 (RI/5V/12V)

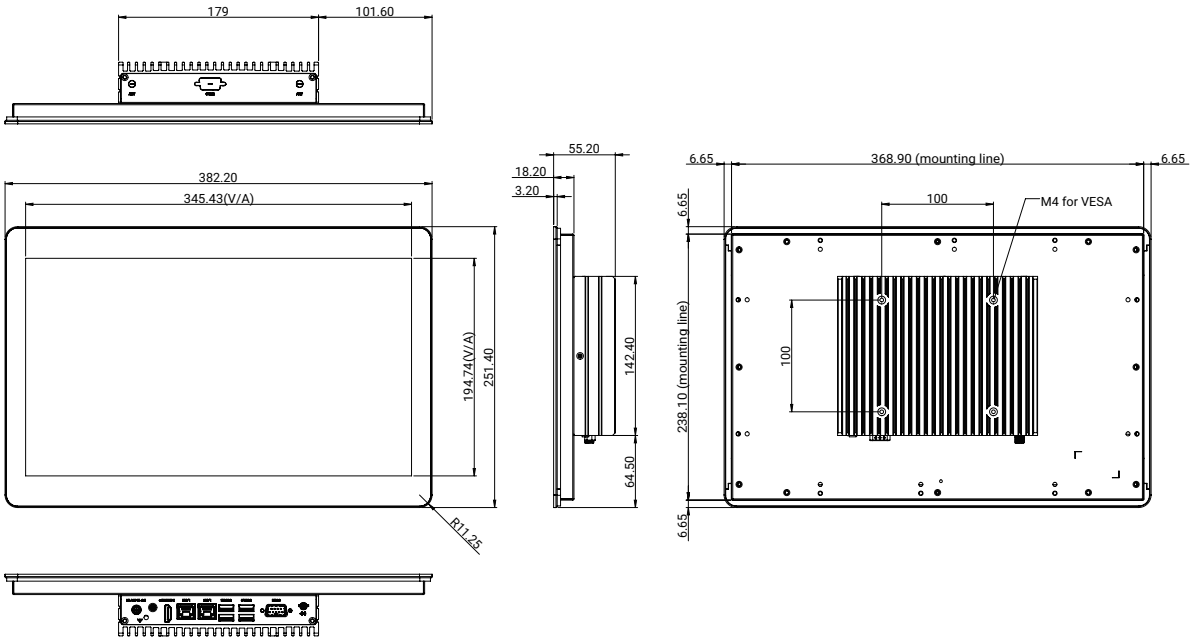
I/O Interface Rear

- 1 x DC 12V~24V power input
- 2 x 2.5GbE RJ45 port, Intel® I226-V
- 1 x HDMI® 1.4, up to 3840x2160@30Hz
- 2 x USB 3.2 Gen 1x1, Type-A
- 2 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

- 1 x eDP/LVDS internal connector, resolution up to 1920x1080@60Hz
- 1 x 4-pin header for USB 2.0
- 1 x 4-pin header for line out
- 1 x LCD panel INV thru a 6-pin header

Dimension Drawing



- 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)

Mechanical

- Dimensions: 382.2mm (W) x 251.4mm (D) x 55.2mm (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~60°C
- Relative humidity: 0%~90% (non-condensing)
- Shock protection: 20g peak acceleration, 11ms according to IEC 60068-2-27
- Vibration protection
  - Random: 1Grms@5Hz~500Hz, 0.5hr/axis (non-operating), IEC 60068-2-64
  - Sinusoidal: 1Grms@5Hz~500Hz, 1hr/axis, IEC 60068-2-6

Power Supply

- DC 12V~24V power input
  - 1 x 12V, 65W 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

- **XPPC 16-105N97 (P/N: 10W30XPPC57X0)**

  15.6" FHD LED embedded touchscreen computer, Intel® processor N97, 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.