NKT-101V-12i3

Intel 12th Gen i3-1215U In-Vehicle Fanless Panel PC







Main Features

- Onboard Intel 12th Gen i3-1215U 6 Core processor, up to 4.4 GHz
- Metal housing with robust aluminum front zero bezel for harsh environment
- 10 points P-Cap multi-touch with zero bezel flush front design
- Front Panel IP65
- Dual GbE/2nd display-HDMI
- 4 x USB 3.0, 2 x USB2.0
- 1 x DB9 for RS485, 3 x DB9 for RS232
- Support -10°C~80°C Operating temperature
- Support 9~36V DC Power IN

Product Overview

The 10.1" fanless panel PC NKT-101V-12i3 incorporating an industrial motherboard is intended for vehicle application. The panel PC has a touch screen LED backlight 1000 nits LCD panel with 1280 x 800 (WXGA) resolution. The front panel which adopts flush design and complies with IP65 standard makes it the perfect fit in vehicle applications. The NKT-101V-12i3 supports WWAN/WLAN expansion and others via dual Gigabit Ethernet connectors and two M.2 slots. With support for wide power input of 9~36VDC, NKT-101V-12i3 can gain a strong foothold in vehicle field and machine devices. In addition, NKT-101V-12i3 can hook 2nd display via a HDMI port for dual independent display. NKT-101V-12i3 has 3 RS232 ports and 1 RS485 port.

Specifications

Panel

- LCD size: 10.1", 16:9
- Resolution: WXGA 1280 x 800
- Luminance: 1000cd/m2
- Contrast ratio: 1300:1
- LCD color: 262K
- Viewing angle: 85 (U), 85 (D), 85 (L), 85 (R)
- Backlight: LED

Touch

- Ten points P-Cap (projected capacitive touch)
- Touch light transmission: 90%
- Anti-scratch surface: 7H hardness
- Touch interface: USB

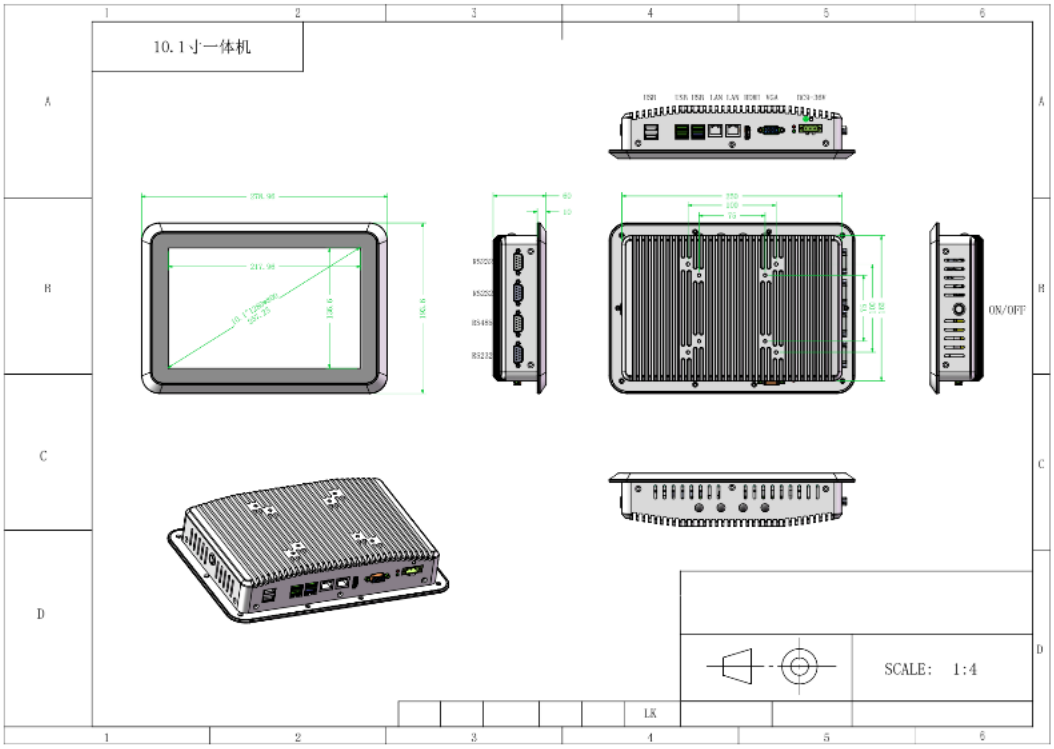
System

- CPU: onboard Intel® 12th Gen i3-1215U 6 Core processor, 4.4GHz
- BIOS: AMI BIOS
- System memory: 2 x DDR4 SO-DIMM socket
- Storage Device
  - M.2 M-Key 2280 SSD NVMe Slot
  - Optional internal 1 x SATA 3.0 Slot.
- Expansion: 2 x M.2 sockets (supports WWAN/WLAN modules)

Rear I/O

- 4 x Antenna holes
- Ethernet: 2 x RJ45
- 4 x USB 3.0 (Standby Mode after Power Off)
- 2 x USB 2.0 (Disable USB power after Power Off)
- 1 x HDMI for 2nd Display
- 3 x RS232
- 1 x RS485
- Power Button
- Power Connector

Dimension Drawing



Audio
- HD codec: Realtek ALC897
- Audio interface: Line-out audio jack

Ethernet
- LAN chip Intel® I219V and I211AT/I210AT
- Ethernet interface: 10/100/1000 based-Tx Ethernet compatible

Mechanical & Environment
- Dimension:278.96 mm x 193.6 mm x 60 mm
- Weight:2.5 kg
- IP Protection: IP65 Front
- Mounting: VESA 75 x 75 / 100 x 100 mm
- Power
  - Power Input: 9~36VDC
- Temperature/Humidity
  - Operating temperature: -10°C to 80°C
  - Storage temperature: -20°C to 85°C
  - Operating humidity: 10%~90% relative humidity, non-condensing

Certifications
- CE approval

Support OS
- Windows 10/11, 64-bit

Ordering Information

- **NKT-101V-12i3 (P/N: TBD)**
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