

IPPC 1560T

15" TFT XGA 4:3 Heavy Industrial Panel PC with
3rd Generation Intel® Core™ i5, 2.7GHz, Fieldbus Module Installed



IPPC 1560TP2E-DC



IPPC 1560TE

Main Features

- 4:3 15" XGA Fanless Panel Computer
- Powerful 2nd/3rd generation Intel® Core™ processor
- Two expansion slots for add-on PCI or/and PCIe cards
- Optional 3.5G/Wi-Fi module/2.5" HDD/3 x Coms/GPIO/DIO/Dimming Control Button
- Front accessible USB2.0 for easy of field maintenance
- Metal housing with robust aluminum front bezel for harsh environment
- IP66 compliant front panel
- Optional: wide range DC power input model/isolation protection DC power input model

Product Overview

IPPC 1560T is a heavy industrial panel PC equipped with powerful 2nd/3rd generation Intel® Core™ processor, TFT LCD panel with LED backlight and user-friendly touch screen. It provides two expansion slots to support PROFINET, PROFIBUS, DeviceNet, EtherNet/IP and EtherCAT protocols. The NEMA4/IP66 rated heavy-duty aluminum front bezel and the vibration-resistant rugged chassis are specifically designed for outdoor and harsh industrial environments. IPPC 1560T is ideal for use in oil and gas rig, wind farms, chemical factories, pharmaceutical factories, and hazardous working area.

Specifications

Panel

- LED Size: 15", 4:3
- Resolution: XGA 1024 x 768
- Luminance: 400cd/m²
- Contrast ratio: 700
- LCD color: 16.2M
- Viewing Angle: 60(U), 80(D), 80(L), 80(R)
- Backlight: LED

Touch

- Touch screen: 5-wire resistive
- Touch light transmission: 80%
- Touch interface: USB

System

- CPU: Support 2nd/3rd gen. Intel® Core™ processor family, rPGA 988
 - Intel® Core™ i5-3610ME (2 x 2.7GHz, 3M cache, Max. TDP 35W) (Default)
 - Intel® Core™ i3-3120ME (2 x 2.4GHz, 3M cache, Max. TDP 35W)
 - Intel® Celeron® B810 (2 x 1.6GHz, 2M cache, Max. TDP 35W)
 - Intel® Pentium® B950 (2 x 2.1GHz, 2M cache, Max. TDP 35W)
- BIOS: AMI BIOS
- System chipset: Intel® HM76 Express chipset
- System memory: 1 x 204-pin DDR3 SO-DIMM socket, 4G DDR3 (Default), Support up to 8GB DDR3-1066/1333, Non-ECC and Un-buffered
- Storage Device:
 - 1 x external locked CFast socket
 - 2 x hard drive bay: optional 2 x 2.5" SATA HDD
 - 1 x SATA DOM (Optional)

- Watchdog timer: Watchdog timeout can be programmable by software from 1 second to 255 seconds and from 1 minute to 255 minutes (Tolerance 15% under room temperature 25°C)
- H/W status monitor: Monitoring system temperature, and voltage
- Expansion:
 - 2 x Mini-PCIe sockets (support optional Wi-Fi or 3.5G module)
 - 2 x expansion slots for add-on PCI or/and PCIe cards
 - 1 x PCI and 1 x PCIe4 slots (Default)
 - 2 x PCIe4 slots
 - 2 x PCI slots

Rear I/O

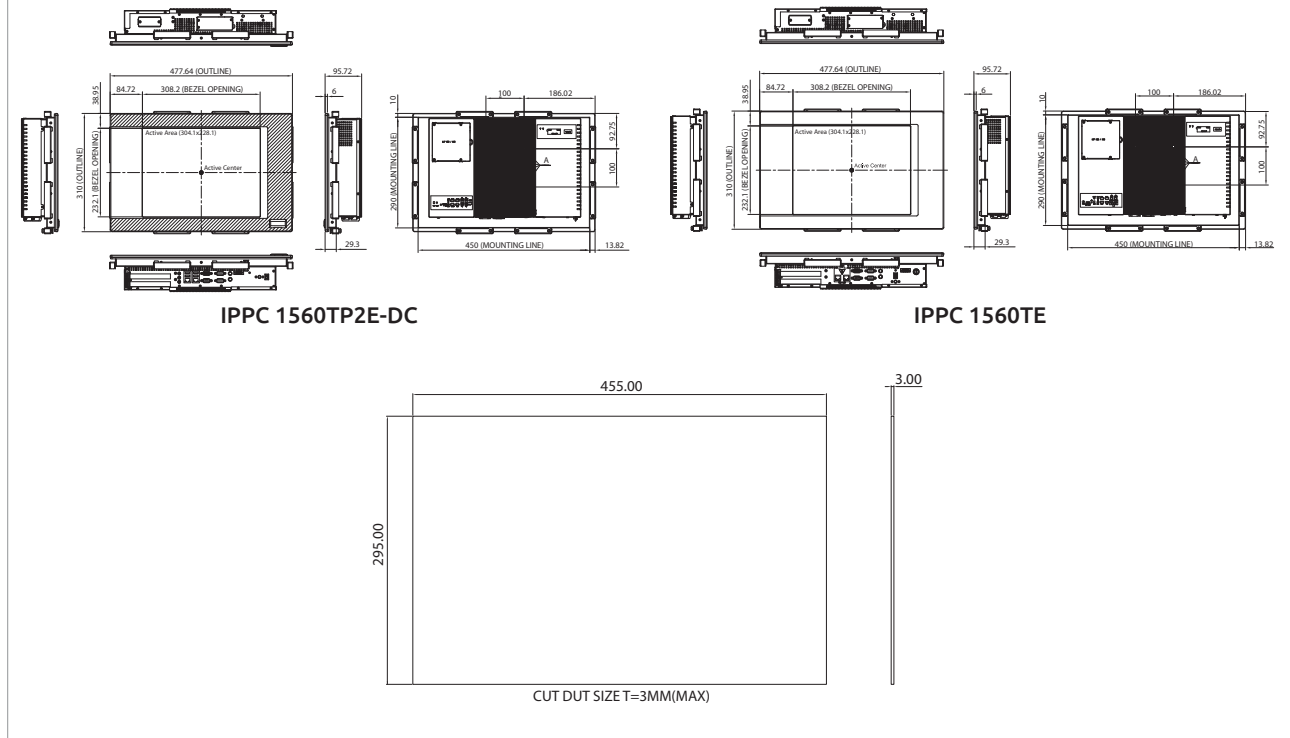
For IPPC 1560TP2E-DC

- Ethernet: 2 x RJ45
- 2nd display VGA port: 1 x DB15
- Audio port: 1 x Line-out; 1 x Line-in; 1 x MIC-in
- USB: 5 x USB2.0 (1 in front)
- 2 x PS2 keyboard/mouse
- ATX Power switch
- Reset button
- COM #1: RS232/422/485 w/ RI or 5V or 12V selection
- COM #2: RS232/422/485 w/ RI or 5V or 12V selection
- COM #3: RS232 w/ RI or 5V or 12V selection

For IPPC 1560TE only

- Ethernet: 2 x RJ45
- 2nd display VGA port: 1 x DB15
- USB: 4 x USB2.0 (Hidden)
- 2 x PS2 keyboard/mouse
- ATX Power switch

Dimension Drawing



- Reset button
- COM #1: RS232/422/485 w/ 2.5kv isolated protection
- COM #2: RS232/422/485 w/ 2.5kv isolated protection
- COM #3: RS232

Audio (only for IPPC1560TP2E-DC)

- AC97 codec: Realtek ALC886-GR
- Audio interface: Line-out/Line-in/MIC-in Audio Jack

Ethernet

- LAN chip: dual Intel® 82574L Gigabit LAN
- Ethernet interface: 10/100/1000 Based-Tx Ethernet compatible

Mechanical & Environment

- Color: pantone 432C\RAL 70 24 front bezel
- Enclosure: Aluminum front bezel with SPPC nickle plated Housing
- IP protection: IP66 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm

For IPPC 1560TP2E-DC

- Power input: +9 to 30VDC
- Power Adapter: Optional AC to DC power adapter (+24V, 120W)

For IPPC 1560TE

- Power input: +24V DC+-20% w/ 1.5kv isolated protection
- Fuse: 250V/10A
- Vibration:
 - IEC 68 2-64 (w/ HDD)
 - 1Grms @ sine, 5~500Hz, 1hr/axis (HDD Operating)
 - 2Grms @ sine, 5~500Hz, 1hr/axis (CFast Operating)
 - 2.2Grms @ random condition, 5~500Hz, 0.5hr/axis (Non-operating)
- Shock:
 - IEC 68 2-27
 - HDD: 20G @ wall mount, half sine, 11ms
- Operating temperature: -10°C to 50°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing
Limits to be at 90% RH at max 50°C

Certifications

- CE (including EN61000-6-2/EN61000-6-4)
- FCC Class A

Ordering Information

System

- **IPPC 1560TP2E-DC-FBI (P/N: A011560T00X1)**
15" XGA LED Backlight Fanless Touch Panel PC, Intel® Core™ i5-3610ME 2.7GHz, touch screen, 4GB DDR3, 3 x COMs, DC Power input, fieldbus module installed
- **IPPC1560TE-FBI (P/N: A011560T02X0)**
15" XGA LED Backlight Fanless Touch Panel PC, Intel® Core™ i5-3610ME 2.7GHz, touch screen, 4GB DDR3, 3 x COMs, isolated protection DC power, fieldbus module installed

Option

- **24V/5A, 120W AC TO DC DIN RAIL POWER SUPPLY (P/N: 7440120001X00)**
- **Riser Card 2 x PCI slots (P/N: 20JK036P200X0)**
- **Riser Card 2 x PCIe4 slots (P/N: 20JK036E200X2)**