



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
- ♦ Metal housing with robust aluminum front bezel for harsh environment
- ♦ IP65 compliant front panel
- ♦ Support fieldbus module, JMobile HMI and CODESYS SoftLogic (optional)
- ♦ For class I, division 2 hazardous locations

Product Overview

IPPC 1560TE 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 1560TE is ideal for use in oil and gas rig, wind farms, chemical factories, pharmaceutical factories, and hazardous working area.

Specifications

Panel

- ♦ LCD Size: 15", 4:3
- ♦ Resolution: XGA 1024 x 768
- ♦ Luminance: 400cd/m²
- ♦ Contrast ratio: 700
- ♦ LCD color: 16.7M
- ♦ Viewing angle: 60 (U), 80 (D), 80 (L), 80 (R)
- ♦ Backlight: LED

Touch

- ♦ 5-wire resistive (Flush panel type)
- ♦ Light transmission: 81%
- ♦ Interface: USB

System

- ♦ CPU: support 2nd/3rd gen. Intel® Core™ processor family, rPGA 988
 - Intel® Core™ i5-3610ME, Dual Core, 2.7GHz, 3M Cache (maximum frequency 3.3GHz if turbo boost enabled)
- ♦ 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
 - 1 x Hard drive bay
- ♦ 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 PCIe x4 slots (default)
 - 2 x PCIe x4 slots
 - 2 x PCI slots

Rear I/O

- ♦ 2nd display VGA port: 1 x DB15
- ♦ Ethernet: 2 x RJ45
- ♦ USB: 4 x USB 2.0 (hidden)
- ♦ COM #1: RS232/422/485 w/ 2.5kv isolated protection
- ♦ COM #2: RS232/422/485 w/ 2.5kv isolated protection
- ♦ COM #3: RS232 w/ RI or 5V or 12V selection
- ♦ ATX power switch
- ♦ Reset button

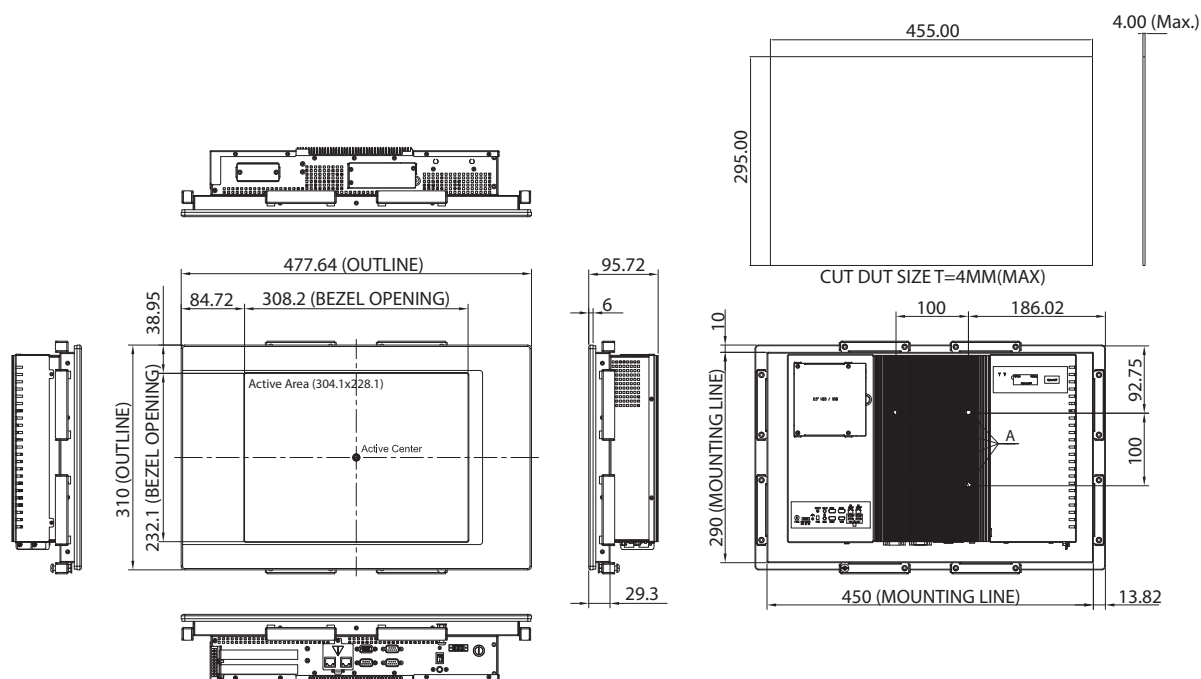
Ethernet

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

Fieldbus

- ♦ Support up to two fieldbus module (1 universal kit and 1 special kit)

Dimension Drawing



Mechanical & Environment

- Color: Pantone 432C/RAL 70 24 front bezel
- Enclosure: aluminum front bezel with SPPC nickel plated housing
- IP protection: IP65 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- Power:
 - Power input: 24 VDC, 4A, Class 2
 - Power protection: $\pm 20\%$ with 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
- Dimension: 477.64 x 310 x 95.72mm
- Weight: 9.51Kg

Certifications

- CE (including EN61000-6-2/EN61000-6-4)
- FCC Class A
- UL508
- C1D2: USL-ANSI/ISA 12.12.01-2013
- CNL-CSA C22.2 No. 213-M1987

OS Support Lists

- Windows 8 32-bit/64-bit
- Windows 7 32-bit/64-bit
- WinCE 7.0
- Windows XP 32-bit

Ordering Information

System

- **IPPC 1560TE (P/N: 10I1560T02X0)**
15" XGA LED backlight fanless touch panel PC, Intel® Core™ i5-3610ME 2.7GHz, touch screen, 4GB DDR3, 3 x COM, isolated protection DC power

Optional

- **24V/5A, 120W AC to DC DIN rail power adapter w/o power cord (P/N: 7440120001X00)**
- **Riser card 2 x PCI slots (P/N: 20JK036P200X0)**
- **Riser card 2 x PCIe x4 slots (P/N: 20JK036E200X2)**
- **PROFINET, EtherNet/IP, EtherCAT, SERCOSIII master interface module: FBI90E-REM (P/N: 10J50090E08X0)**
- **PROFINET master interface module: FBI90E-PNM (P/N: 10J50090E21X0)**
- **PROFIBUS master interface module: FBI90E-PBM (P/N: 10J50090E09X0)**
- **DeviceNet master interface module: FBI90E-DNM (P/N: 10J50090E10X0)**
- **EtherCAT master interface module: FBI90E-ECM (P/N: 10J50090E19X0)**
- **EtherNet/IP master interface module: FBI90E-EPM (P/N: 10J50090E20X0)**