

IPPC 1632P

15.6" TFT WXGA 16:9 Heavy Industrial Panel PC with Intel® Atom™ D2550, 1.86GHz,
Multi-Touch Screen, 4GB DDR3, 4 x USB, 2 x COM and VGA



Main Features

- Intel® Atom™ D2550, dual core, low power consumption CPU
- Metal housing with robust aluminum front zero bezel for harsh environment
- 10 points P-Cap multi-touch with zero bezel flush front design
- Dual GbE/2nd display-VGA/Line-out
- USB x 4/2 x Mini-PCle sockets/1 x CFAST/2 x RS232/422/485
- DDR3 4GB/2.5" HDD bracket
- IP66 compliant front panel
- Support fieldbus module (optional)
- Mounting support: panel/wall/stand/VESA 100mm x 100mm
- Wide range power input 12V~ 30V DC

Product Overview

The 15.6" fanless panel PC IPPC 1632P incorporating an industrial motherboard is intended for versatile industrial applications. The panel PC has a touch screen LED backlight LCD panel with 1366 x 768 (HD; WXGA) resolution. The front panel which adopts flush design and complies with IP66 standard makes it the perfect fit in industrial applications.

The IPPC 1632P supports WWAN/WLAN expansion and others via dual Gigabit Ethernet connectors, two Mini-PCle slots and one SIM card holder. With support for wide power input of 12V~30V, IPPC 1632P can gain a strong foothold in industrial field and machine devices. In addition, IPPC 1632P can hook 2nd display via a VGA port for dual independent display. IPPC 1632P has two isolated RS232/422/485 ports, four isolated channels of DI and DO, and optional fieldbus ports.

Specifications

Panel

- LED size: 15.6", 16:9
- Resolution: WXGA 1366 x 768
- Luminance: 300cd/m²
- Contrast ratio: 500
- LCD color: 16.7M
- Viewing angle: 80(U), 80(D), 85(L), 85(R)
- Backlight: LED

Touch

- Ten points P-Cap (Projected Capacitive Touch)
- Touch light transmission: 87%
- Anti-scratch surface: 7H hardness
- Touch interface: USB
- Windows 8 compliance

System

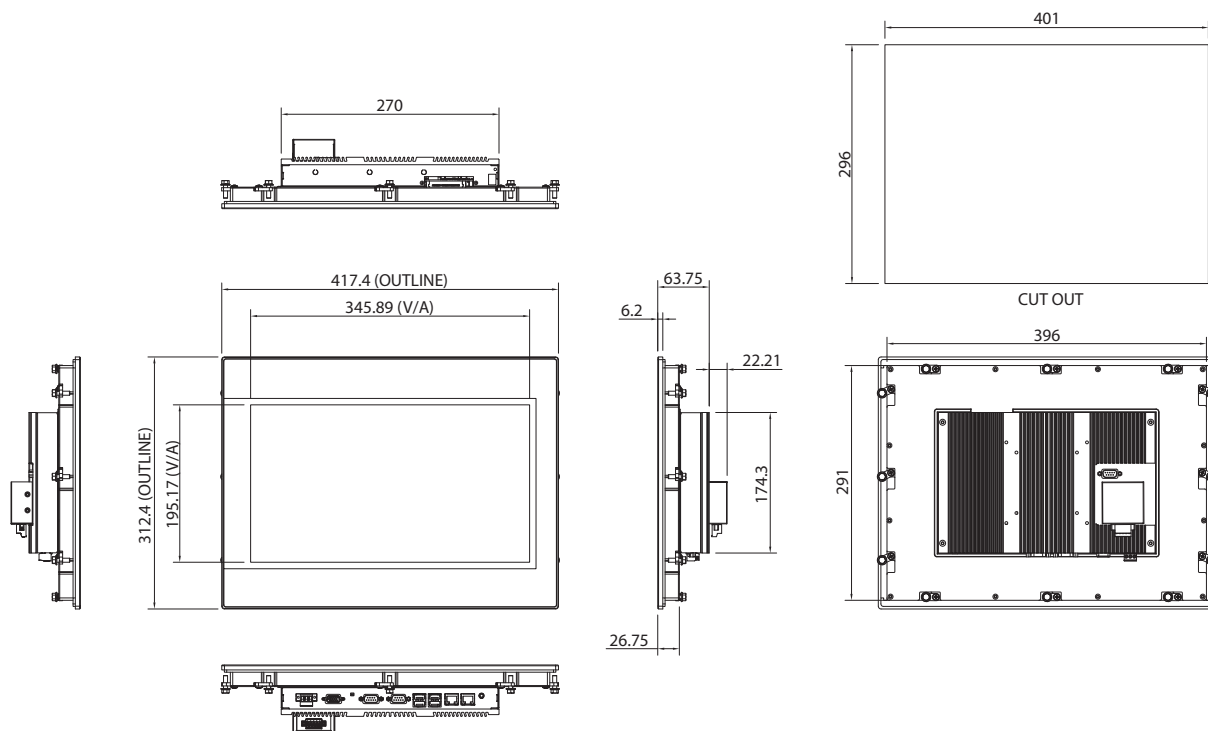
- CPU: On-board Intel® Atom™ dual core processor D2550, 1.86GHz, 1M L2 Cache
- BIOS: AMI BIOS
- System chipset: Intel® NM10 Express chipset
- System memory: 2 x 204-pin DDR3 SO-DIMM socket, 4GB DDR3 (Default), Support up to 4GB DDR3-800/1066, Non-ECC and Un-buffered
- Storage Device:
 - 1 x external locked CFAST socket

- 1 x hard drive bay: optional 1 x 2.5" SATA HDD or 1 x SATA DOM
- 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-PCle sockets (support optional Wi-Fi, 3.5G module or fieldbus card)
- Panel backlight control button: increase brightness/decrease brightness/backlight on/off
- Front Logo LED indicator to show operating status

Rear I/O

- Ethernet: 2 x RJ45
- 2nd display VGA port: 1 x DB15
- Audio port: 1 x Line-out
- USB: 4 x USB 2.0
- Power switch
- Reset button
- DIO w/ 2.5kv isolated:
 - 4 x Digital Input (source type)
 - Input voltage (dry contact): Logic 0: Close to GND
 - Logic 1: Open
 - Input voltage: Logic 0: 3V max
 - Logic 1: +5V ~ +30V
- 4 x Digital Output (sink type)
 - Output voltage: 3.6V ~ 5V

Dimension Drawing



- Sink current: 200 mA max. per channel
- COM #1: RS232/422/485 w/ 2.5kv isolated
- COM #2: RS232/422/485 w/ 2.5kv isolated
- Fieldbus: (protocol interface optional)

Model	Protocol	Connector
FBI90E-PNM	ProFINET master	Dual RJ-45
FBI90E-EP	Ethernet/IP master	
FBI90E-ECM	EtherCAT master	
FBI90E-PBM	Profibus master	DB9
FBI90E-DNM	DeviceNet master	5-pins Phoenix Contact terminal

Audio

- 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 425C/RAL 70 24 front bezel
- IP protection: IP66 front
- Mounting: panel/wall/stand/VESA 100mm x 100mm
- System with panel mounting kit w/ o panel mounting hole
- Power input: 12V~30VDC
- Power adapter: optional AC to DC power adaptor (+12V, 60W)
- 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 60°C
- Storage temperature: -20°C to 75°C
- Operating humidity: 10%~90% relative humidity, non-condensing

- Dimension: 417.8mm x 312.8mm x 63.75mm
- Weight: 6.4Kg

Certifications

- CE (including EN61000-6-1/EN61000-6-2/EN61000-6-3/EN61000-6-4)
- FCC Class B
- cUL 60950

Ordering Information

Barebone

- **IPPC 1632P (P/N: 10II1632P00X0)**
15.6" WXGA LED backlight touch panel PC, Intel® Atom™ D2550 1.86 GHz, touch screen, 4GB DDR3, 2 x RS232/422/485 and 4 x 4 DI/O with isolated protection, brightness adjustment buttons, optional fieldbus module

Options

- **12V, 60W AC/DC power adapter w/ o power cord (P/N: 7400060019X00)**
- **PROFINET master interface module: FBI90E-PNM for APPC (P/N: 88IA1932T00X0)**
- **EtherNet/IP master interface module: FBI90E-EP for APPC (P/N: 88IA1932T01X0)**
- **EtherCAT master interface module: FBI90E-ECM for APPC (P/N: 88IA1932T02X0)**
- **PROFIBUS master interface module: FBI90E-PBM for APPC (P/N: 88IA1932T03X0)**
- **DeviceNet master interface module: FBI90E-DNM for APPC (P/N: 88IA1932T04X0)**