

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 Fieldbus Module Installed



Main Features

- ♦ Intel® Atom™ D2550 Dual Core low power consumption CPU
- ♦ Metal housing with robust aluminum front zero bezel for harsh environment
- ♦ Multi-touch P-Cap touch
- ♦ Dual GbE/2nd display-VGA/Line-in/Line-out/MIC-in
- ♦ USB x 4/2 x Mini PCIe sockets/1 x CFast/2 x RS232/422/485
- ♦ Fieldbus enabled
- ♦ DDR3 4GB/2.5" HDD bracket
- ♦ IP66 compliant front panel
- ♦ Mounting support: Panel/Wall/Stand/VESA 100mm x 100mm
- ♦ Wide range power input 12V~ 30VDC

Product Overview

The 15.6" fanless panel PC IPPC 1632P incorporating an industrial motherboard is designed to meet up the demands of versatile industrial applications. The panel PC has a touch screen LED backlight LCD panel with 1366 x 768 HD resolutions. The front panel with flush design and graded in IP66 standard makes it ideal for industrial applications.

The IPPC 1632P supports WWAN/WLAN expansion and others via dual Gigabit Ethernet connectors, two Mini PCIe slots and one SIM card holder. In addition, the wide power input range from 12V~30V makes IPPC 1632P gain a strong foothold in industrial field and machine devices. The IPPC 1632P also can connect to 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 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

System

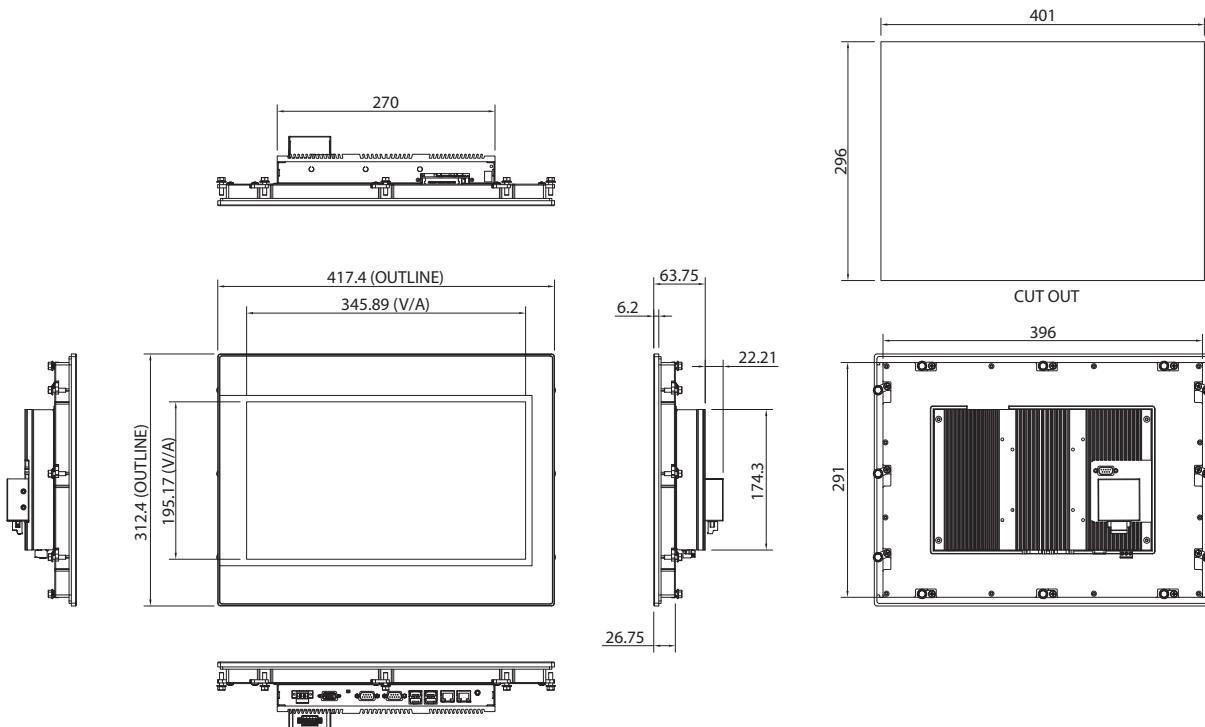
- ♦ CPU: on-board Intel® Atom™ Dual Core processor D2550, 1.86GHz, 1M L2 cache
- ♦ BIOS: AMI BIOS
- ♦ System chipset: Intel® NM10 express chipset
- ♦ System memory: 2 x 204-pin DDR3 SO-DIMM socket, 4GB DDR3 (Default), support up to 4GB DDR3-800/1066, non-ECC and un-buffered
- ♦ Storage device:
 - 1 x 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 PCIe slots (support optional Wi-Fi, 3.5G module or Fieldbus Card)
- ♦ Panel backlight control button: increase brightness/decrease brightness/backlight on/off

Rear I/O

- ♦ 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: 4 x USB2.0
- ♦ 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
 - Sink current: 200 mA max. per channel
- ♦ COM #1: RS232/422/485 w/ 2.5kv isolated

Dimension Drawing



- ♦ COM #2: RS232/422/485 w/ 2.5kv isolated
- ♦ Fieldbus: (protocol interface optional)

| Model | Protocol | Connector |
|------------|--------------------|---------------------------------|
| FBI90E-PNM | Profinet Master | |
| FBI90E-EP | Ethernet/IP Master | Dual RJ-45 |
| 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
- ♦ 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: 417.8 x 312.8 x 63.75mm
- ♦ Weight: 6.4Kg

Certifications

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

Ordering Information

System

- ♦ **IPPC 1632P-FBI (P/N: A0II1632P00X0)**
15.6" full-HD LED backlight touch Panel PC, Intel® Atom™ D2550 1.86 GHz, touch screen, 4GB DDR3, 2 xRS232/422/485 and 4 x 4 DI/O with isolated protection, brightness adjustment buttons, fieldbus module installed
- ♦ **Profinet master interface: FBI90E-PNM for APPC (protocol option P/N: 88IA1932T00X0)**
- ♦ **Ethernet/IP master interface: FBI90E-EP for APPC (protocol option P/N: 88IA1932T01X0)**
- ♦ **EtherCAT master interface: FBI90E-ECM for APPC (protocol option P/N: 88IA1932T02X0)**
- ♦ **Profibus master interface: FBI90E-PBM for APPC (protocol option P/N: 88IA1932T03X0)**
- ♦ **DeviceNet master interface: FBI90E-DNM for APPC (protocol option P/N: 88IA1932T04X0)**

Options

- ♦ **12V, 60W AC/DC power adapter w/o power cord (P/N: 7400060019X00)**