**IPPC-6152A IPPC-6172A IPPC-6192A**

# 15" XGA/17" SXGA/19"SXGA TFT LCD

**LED Backlight Core™ i7/i5/i3 Industrial Panel PC**

**Features**

* 15" XGA/17" SXGA/19" SXGA TFT LCD with touchscreen
* Supports Intel® Core™ i7/i5/i3 processor with Q87 chipset (up to 3.1GHz )
* System supports four DIMM sockets support up to 32 GB DDR3 1333/1600 MHz SDRAM
* Offers multiple expansion slots including two PCI (default), one PCI + one PCIe x4 (optional), two PCIe x1 (in the accessory box)
* SATA 2.0 or SATA 3.0 HDDs and RAID 0,1 compatibility
* Front USB access and system reset function
* Front panel is IP65 compliant
* Supports Intel AMT 9.0 and Intel vPro competent
* Supports Microsoft**®** Windows 7,Windows 8.1 and Windows 10
* Supports SUSIAccess and Embedded Software APIs
* Optional Functionality –CFast ,PCI/ PCIe expansion,DVD-ROM

**Introduction**

The IPPC-6000A Series is an Industrial Panel PC with front USB access, supports the powerful 4th Gen Intel Core™ i7/i5/i3, high speed DDR3 memory, up to 32 GB, two expansion slots. The processor and chipset combination form the foundation of vPro, Intel’s next generation digital office platform, offering remote out-of-band manageability, improved security, and energy efficient performance. Two SATA hard driver interface with RAID 0,1 support provides data security. Multi function optional –CFast ,PCI/ PCIe expansion,DVD-ROM which offers great flexibility for application specific requirements. Rugged Metal &IP65 Flat-Sealed Front provide excellent durability in harsh environment. With optional mounting accessories, from panels to racks,it can be mounted anywhere.

# Specifications

## General

* **BIOS** AMI 64 MB Flash BIOS
* **Certification** UL, CE, FCC, CCC, BSMI
* **Enclosure** Die-cast flat-sealed front with SGCC Housing

 **Dimensions (W x H x D)** IPPC-6152A :449.92 x 315.63 x 126.4 mm

(17.71" x 12.43" x 4.98")

IPPC-6172A: 481.93 x 355.87 x 132.5 mm

(18.97" x 14.01" x 5.22")

IPPC-6192A: 481.93 x 384.6 x 135.5 mm

(18.97" x 15.14" x 5.33")

* **Mounting** Panel, Rack (optional)
* **OS Support** Microsoft® WES7 32bit&64bit/Windows 7 32bit&64bit/ Windows 8.1 32bit&64bit/ Windows 10 32bit&64bit

 **Power Input** 100 ~ 240 VAC @ 60 ~ 50 Hz, 7 ~ 3.5 A

* **Power Supply** 350 W

## System Hardware

* **CPU** Supports Intel® Core™ i7/i5/i3 processor (up to 3.1GHz )
* **Chipset** Intel Q87
* **Memory** System supports four DIMM sockets support up to 32 GB DDR3 1333/1600 MHz SDRAM
* **LAN** 10/100/1000 Base-T Ethernet x 2
* **Expansion** Two half-length PCI (default)

Two PCIe x1 (in the accessory box) One PCI + One PCIe x4 (Optional)

* **Storage** Supports 2 x 2.5“ SATA 2.0 or SATA 3.0 HDDs and

RAID 0,1 compatibility

* **Optical Driver** 1 x Slim Type DVD-RW (optional)

CFast (optional)

* **I/Os** 4 (3 x RS-232, 1 x RS-232/422/485 to support auto flow control)
	1. x GPIO
	2. x Reservation ports

5 x USB Host( USB 2.0 front, 4 USB 3.0) 2 x GbE LAN VGA x1; DVI x1; DP x1

2 (1 x keyboard and 1 x mouse)

2 (Mic-in, Line-out)

## LCD Display

* **Backlight Life** 50,000 hrs
* **Contrast Ratio** IPPC-6152A: 700:1 IPPC-6172A:1000:1 IPPC-6192A:1000:1
* **Display Size** 15", 17", 19"
* **Display Type** IPPC-6152A: XGA TFT LCD LED Backlight

IPPC-6172A:SXGA TFT LCD LED Backlight IPPC-6192A: SXGA TFT LCD LED Backlight

* **Luminance** IPPC-6152A: 400 cd/m2 IPPC-6172A: 350 cd/m2 IPPC-6192A : 350 cd/m2
* **Max. Colors** IPPC-6152A:16.2M/262K

IPPC-6172A: 16.7M (RGB 6-bit + Hi-FRC data)

IPPC-6192A:16.7M (RGB 6-bit + Hi-FRC

data)

* **Max. Resolution** IPPC-6152A: 1024 x 768

IPPC-6172A: 1280 x 1024

IPPC-6192A: 1280 x 1024

* **Viewing Angle (H/V°)** IPPC-6152A:160/140

IPPC-6172A: 170/160

IPPC-6192A: 170/160

 **Industrial Panel Computers & Panel PC**

All product specifications are subject to change without notice Last updated : 18-Apr-2017

|  |  |
| --- | --- |
| IPPC-6172A: 481.93 [18.97] |  |
| IPPC-6192A: 481.93 [18.97] |
|  |
|  |  | IPPC-6152A: 315.63 [12.43] | IPPC-6172A: 355.87 [14.01] |

## Touchscreen

**Dimensions**

Unit: mm [inches]

IPPC-6152A: 449.92 [17.71]

IPPC-6152A: 6 [0.24]

IPPC-6172A: 6 [0.24]

IPPC-6192A: 7 [0.28]

97 [3.82]

IPPC-6152A: 422 [16.61]

IPPC-6152A:126.40 [4.98]

IPPC-6172A: 132.50 [5.22]

IPPC-6192A: 135.50 [5.33]

**Panel Cut-out Dimensions:**

**IPPC-6152A:424x293mm(16.69"x11.54") IPPC-6172A:454x338mm(17.87"x13.31") IPPC-6192A:454x338mm(17.87"x13.31")**

416 [16.38]

IPPC-6192A: 445.92 [17.76]

IPPC-6172A: 450.97 [17.75]

 **Lifespan** 36 million with a silicone rubber of R8 finger, writing rate is by 250g at 2 times/s

# I/O View

COM Ports

LAN Ports

DVD ROM

* **Light Transmission** > 80%
* **Type** Analog resistive 5-wire

## Environment

* **Humidity** 5 ~ 85% @ 40°C (non-condensing)
* **Ingress Protection** Front panel: IP65
* **Operating Temperature** 0 ~ 50°C (32 ~ 122°F)
* **Storage Temperature** -20 ~ 60°C (-4 ~ 140°F)
* **Vibration Protection** 5 ~ 500 Hz, 1 Grms random vibration

Power Switch

Mouse Port DP

GPIO

DVI Port

Line Out

Mic In

# Ordering Information

AC In

VGA

USB 3.0 Ports CFast

* **IPPC-6152A-R2AE** 15" XGA LED IPPC-61X2-R2 2PCIs w/ TS

IPPC-6192A: 384.60 [15.14]

285 [11.22]

IPPC-6152A: 291 [11.46]

IPPC-6172A: 335.97 [13.23]

IPPC-6192A: 334.52 [13.17]

* **IPPC-6172A-R2AE** 17" SXGA LED IPPC-61X2-R2 2PCIs w/ TS
* **IPPC-6192A-R2AE** 19" SXGA LED IPPC-61X2-R2 2PCIs w/ TS

# Accessories

* **98R3615210E** IPPC-6152A Rack mount Kit
* **98R3617200E** IPPC-6172A Rack mount Kit
* **98R3619200E** IPPC-6192A Rack mount Kit
* **989KPH1701E** CFast module for IPPC-61X2-R2 Series
* **1702002600** Power Cable US Plug 1.8 M
* **1702002605** Power Cable EU Plug 1.8 M
* **1702031801** Power Cable UK Plug 1.8 M
* **1702031836** Power Cable China/Australia Plug 1.8 M
* **96CB-POWER-B-1.8M1** POWER CORD for China 1.8M
* **989KPH3800E** PCIE to PCI + PCIE x4

Keyboard Port

# Front Accessible USB Port

 Reset Button USB

# CPU List

|  |
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| **CPU Type List & Description** |
| **Model Number** | **Advantech Part Number** | **Description** |
| I7-4770S | 96MPI7-3.1-8M10T | CORE 3.1G 8M 1150P 4 CORE I7-4770S |
| I7-4770TE | 96MPI7-2.3-8M10T | CORE 2.3G 8M 1150P 4 CORE I7-4770TE |
| I7-4790S | 96MPI7-3.2-8M10T | CORE 3.2G 8M 1150P 4CORE i7-4790S |
| I5-4670S | -- | CORE 3.8G 6M 4 CORE I5-4670S |
| I5-4590S | 96MPI5-3.0-6M10T | CORE 3.0G 6M 1150P 4CORE i5-4590S |
| I5-4570S | 96MPI5-2.9-6M10T | CORE 2.9G 6M 1150P 4 CORE I5-4570S |
| I5-4570TE | 96MPI5-2.7-4M10T | CORE 2.7G 4M 1150P 2 CORE I5-4570TE |
| I5-4590T | 96MPI5-2.0-6M10T | CORE 2.0G 6M 1150P 4CORE I5-4590T |
| I3-4360 | 96MPI3-3.7-4M10T | CORE 3.7G 4M 1150P 2CORE I3-4360 |
| I3-4330 | 96MPI3-3.5-4M10T | CORE 3.5G 4M 1150P 2CORE I3-4330 |
| I3-4350T | 96MPI3-3.1-4M10T | CORE 3.1G 4M 1150P 2CORE I3-4350T |
| I3-4340TE | 96MPI3-2.6-4M10T | CORE 2.6G 4M 1150P 2CORE I3-4340TE |
| I3-4330TE | 96MPI3-2.4-4M10T | CORE 2.4G 4M 1150P 2CORE I3-4330TE |
| G3320TE | 96MPP-2.3-3M10T | PENTIUM 2.3F 3M 1150P TRAY G3320TE |
| G3420T | -- | Intel® Pentium ® Processor G3420T |

**Memory List**

|  |
| --- |
| **Memory Type List & Description** |
| **Model Number** | **Advantech Part Number** | **Description** |
| Transcend TS2KNU28100-3S | 96D3-1G1333NN-TR1 | 1G DDR3-1333 240PIN 128X8 SAM(G) |
| Apacer 78.A1GC6.421 | 96D3-2G1333NN-AP | 2G DDR3-1333 240PIN 128X8 ELP(G) |
| Transcend TS5KNU28300-3S | 96D3-2G1333NN-TR2 | 2G DDR3-1333 240PIN 128X8 SAM(G) |
| Apacer 78.B1GDE.AF1 | 96D3-4G1333NN-AP | 4G DDR3-1333 240PIN 256X8 HYX(G) |
| Apacer 78.B1GE3.AFF0C | 96D3-4G1600NN-APL | 4G DDR3-1600 240PIN 256X8 VLP HYX(G) |
| Transcend TS9KNH28300-6M | 96D3-8G1600NN-TR | 8G DDR3-1600 240PIN 512X8 MIC(G) |
| Apacer 78.C1GET.ATF0C | 96D3-8G1600NN-APL | 8G DDR3-1600 240PIN 512X8 VLP MIC(G) |