

# IPC-BPND0U-0000-X00H

High Performance PCs with Intel® Core™ i7 Processor  
Rugged and Powerful for Optimal Availability



## Features and Benefits

- Industry 4.0 and IoT gateway ready for future requirements
- Powerful PCs for control, data collection or communication
- Intel® Core™ i7-4650U Processor, 4M Cache, up to 3.30 GHz
- High memory bandwidth with dual-channel DDR3L, up to 16 GB
- High system availability & data security with RAID 1 systems
- A 2nd non-volatile m-SATA SSD for disaster recovery systems
- High-speed Ethernet & USB 3.0 ports, and flexible serial ports
- Intel HD graphics supports DirectX 11.1, OpenCL/GL, & videos
- A 24 V DC (9.6 V to 28.8 V) isolated industrial power supply
- Pre-installed and activated 32/64-bit Windows operating system
- An externally accessible PCIe slot & two SSD storage enclosures
- Fanless operation up to ambient temperatures of 50 °C
- UL listing, CE Marking & CB Scheme, FCC and CE compliant

## Introduction

The AIS Premium Box PC is the highest performing industrial computer with expandability for plant field and high performance machines. It utilizes an Intel® Core™ i7-4650U Processor (4M Cache, up to 3.30 GHz), DDR3L-1600 memory (up to 16 GB), RAID 1 high-availability storage, PCIe expansion slot, and 12-24 VDC power supply. These systems come with Windows Embedded Standard 7/8 and X86 PC-based platforms, and are modular, field-replaceable, easy to service, maintenance-free, rugged, fan-less, shock and vibration resistant and able to withstand high electromagnetic environments. Moreover they come with UL listing and a CB scheme certificate.

## Specifications

System hardware	
Processor	Intel® Core™ i7-4650U Processor; 4M Cache up to 3.30 GHz, 15 W maximum TDP
Cores / speed	2 / 1.7 GHz
Memory / # of slots	From 8 GB DDR3L 1600 SDRAM, configurable up to 16 GB / 2 slots
Graphics / video	Intel HD graphics; DirectX 11.1, OpenCL/GL, and 4K videos Quick Sync encoder
RAID	RAID 1 system with onboard RAID controller
Drives	
Mass storage	1 x 180 GB SSD, configurable up to 2 x 180 GB SSD RAID1 preconfigured
Secondary storage	32GB m-SATA SSD
Optical drives	Connection via USB port

Interface ports	
Ethernet	2 x Ethernet TCP/IP - RJ45
USB	4 x USB 3.0
Serial	COM1: RS232/422/485; COM2: RS232, isolated
Graphic	1 x VGA; 1 x HDMI
Audio	1 x Line-in, 1 x Line-out
General features	
Operating system	Windows Embedded 7 32/64-bit ; Windows Embedded 8
Free expansion slot	1 x PCIe (x4)
Current supply	24 V DC; 9.6 to 28.8 V, isolated
Mounting options	Wall / DIN-rail mount
Packages / bundles	Packages with Wonderware InTouch, ready-to-use HMI software (optional)
Environment / ambient conditions	
Degree of protection / thermal	IP20 / Type 1
Electromagnetic compatibility	CE, FCC A, EN 61000-6-4, EN 61000-6-3, CISPR22, RoHS
Vibration during operation	Tested according to DIN IEC 60068-2-64: 5 - 500 Hz: 1 Grms
Shock during operation	Tested according to DIN IEC 60068-2-27: 15 gn for 11 ms
Ambient temperature	0...50°C (32...122°F)
Relative humidity	30% to 95% at 40°C (no condensation)
Certifications / regulations	UL/cUL/IEC 61010-1, UL/cUL/IEC 62368-1, CB reports available for all models
Dimensions	
Installation dimensions (W x H x D)	276.44 x 206.8 x 60.2 mm
Product weight (lb / kg)	7.3 / 3.3
Contractual warranty	
Period	12 months

Unit: mm

