

# KUBE-5500

High Performance Heavy Industrial PC with Intel® Kaby Lake family processor



preliminary

KUBE-5500 is a high performance BPC designed for heavy industrial application with Intel® Kaby Lake family processor. Powered by IP30 housing design, patented thermal solution keeps system work stable in extreme environment. Friendly design make user easy monitor and maintenance, such as edge LED indicator design, removable service panel, and LVDS for PPC integration. KUBE-5500 is an ideal solution for intelligent computing and communication solution to meet different kinds of application in the Industry.



Patented thermal solution keep system cool and stable



Easy PPC integration by LVDS connection



Versatile mounting scheme by wall, Din-rail and VESA

## General

CPU	Intel® Core™ i5-7442EQ, 4 cores, 2.1/2.9 GHz, 25W TDP
Memory	2x DDR4 2133/2400 MT/s SODIMM socket support up to 64GB
Mass storage	1 x M.2 Key-B, 2260 interface for SSD
Video Interface	2 x DP v1.4 4096 x 2160 @ 60Hz
Expansion	1 x mini-PCIe with mSATA interface
Cooling	Fan
Power input	24VDC+/- 20% w/ RVP
Indicator LED	ERROR, RUN, SATA, POWER
Power switch	1 x Power switch (Optional)
Operating systems	Windows® 10

## I/O Interfaces

Power connector	1 x 3-Pin Terminal Block
USB	2 x USB 2.0 (5V/0.5A) 2 x USB 3.0 (5V/0.9A)
Ethernet	2 x 10/100/1000 GbE (Intel® i210)
RS-232	2 x COM RS-232
RS-232/422/485 (BIOS configurable)	1 x COM RS-232/422/485

## Mechanical and Environment

Dimension (mm)	186x145x49 (mm)
Net Weight	2 kg
Mounting/ Mounting option	Wall, VESA(Optional), DIN-Rail
Degree of protection (IP rating)	IP30
Ambient temperature (operation)	0°C~45°C
Ambient temperature (storage/ transport)	-40 °C ~85 °C
Permissible humidity (operation)	5 % ~ 95 % RH (non-condensing)
Permissible humidity (storage/ transport)	5 % ~ 95 % RH (non-condensing)
Vibration	1G with DIN EN 60068-2-6
Impact/ Shock	15g, 11 ms in accordance with IEC 60068-2-27

## Standard &amp; Regulation

EMC	CE, FCC
EMI	EN 61000-6-4 & AS/NZS CISPR 22 (Heavy Industry)
	IEC 61000-4-2 Contact: +/- 6 KV; criteria B Air: +/- 8 KV; criteria B
	IEC 61000-4-3 10 V/m 80MHz - 1000MHz 3 V/m 1400 MHz -2000 MHz 1 V/m 2000 MHz -2700 MHz
EMS	IEC 61000-4-4 Signal ports: +/- 2 KV; criteria B DC power ports: +/- 2 KV; criteria B
	IEC 61000-4-5 Signal ports: +/- 1 KV; criteria B DC power ports: +/- 1 KV line-to-earth, +/- 0.5 KV line-to-line; criteria B
	IEC 61000-4-6 Signal ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A DC power ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A
	IEC 61000-4-8 30 A/m @ 50, 60 Hz; criteria A

## Others

	Maximum: (I/O full loading, Windows 10, CPU loading 100%) 1.61A @ 28.8V, 44.72W 1.79A @ 24V, 43.12W 2.20A @ 19.2V, 42.4W
Power consumption (Typical, Max)	Typical (I/O basic loading, Windows 10, CPU loading 40%) 0.62A @ 28.8V, 17.77W 0.67A @ 24V, 16.258W 0.79A @ 19.2V, 15.12W
	Minimal (I/O minimum loading, Windows 10, CPU loading: Idle) 0.45A @ 28.8V, 12.95W 0.47A @ 24V, 11.80W 0.55A @ 19.2V, 10.67W

## Optional Accessory

Display adaptor: DP to VGA / DP to DVI-I video adapter  
 Mass Storage (M.2 SSD): 32GB / 64GB / 128GB / 256GB  
 RAM (DDR4 SO-DIMM): 4G/8G/16G  
 Universal DIN rail adapter  
 Wall mounting kit

## Dimensions

