

# KUBE-5500

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



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-5100 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)<br>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 & Regulation**

|     |                                                                                                                                         |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------|
| EMC | CE, FCC                                                                                                                                 |
| EMI | EN 61000-6-4 & AS/NZS CISPR 22 (Heavy Industry)                                                                                         |
|     | IEC 61000-4-2<br>Contact: +/- 6 KV; criteria B<br>Air: +/- 8 KV; criteria B                                                             |
|     | IEC 61000-4-3<br>10 V/m 80MHz - 1000MHz<br>3 V/m 1400 MHz -2000 MHz<br>1 V/m2000 MHz -2700 MHz                                          |
|     | IEC 61000-4-4<br>Signal ports: +/- 2 KV; criteria B<br>DC power ports: +/- 2 KV; criteria B                                             |
| EMS | IEC 61000-4-5<br>Signal ports: +/- 1 KV; criteria B<br>DC power ports: +/- 1 KV line-to-earth, +/- 0.5 KV line-to-line; criteria B      |
|     | IEC 61000-4-6<br>Signal ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A<br>DC power ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A |
|     | IEC 61000-4-8<br>30 A/m @ 50, 60 Hz; criteria A                                                                                         |

**Others**

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

**Optional Accessory**

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

**Dimensions**

