

KUBE-3100

Entry Level Heavy Industrial PC with Intel® Apollo family processor



KUBE-3100 is a compact size, ruggedized fanless BPC designed for heavy industrial application. Powered by IP30 housing design, extended temperature range for use in extreme environment. Friendly design makes user easy monitor and maintenance, such as edge LED indicator design, removable service panel, and LVDS for PPC integration. KUBE-3100 is an ideal solution for intelligent computing and communication solution to meet different kinds of application in the Industry.



Easy monitor system status by Edge LED at different angle



Rough design by heavy industrial standard



Removable service panel, easy maintenance

General

CPU	Intel® Celeron N3350, 2 cores, 1.1GHz/2.4 GHz, 6W TDP
Memory	1x DDR3L 1866 MT/s SODIMM socket support up to 8GB
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	Fanless
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	2x 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)	158x145x49(mm)
Net Weight	1.5 kg
Mounting/ Mounting option	Wall, VESA(Optional), DIN-Rail
Degree of protection (IP rating)	IP30
Ambient temperature (operation)	0°C ~ 50°C (-40°C ~ 70°C, optional)
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	Heavy Industry EN 61000-6-4 & AS/NZS CISPR 22
	IEC 61000-4-2 Contact: +/- 6 KV; criteria B Air: +/- 8 KV; criteria B
EMS	IEC 61000-4-3 10 V/m 80MHz - 1000MHz 3 V/m 1400 MHz -2000 MHz 1 V/m2000 MHz -2700 MHz
	IEC 61000-4-4 Signal ports: +/- 2 KV; criteria B DC power ports: +/- 2 KV; criteria B
EMS	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
EMS	IEC 61000-4-8 30 A/m @ 50, 60 Hz; criteria A

Others

Power consumption (Typical, Max)	Maximum:(I/O full loading ,Windows 10, CPU loading 100%) 1.05A @ 28.8V, 28.34W 1.09A@24V, 25.32W 1.25A@ 19.2V, 23.88W
	Typical (I/O basic loading ,Windows 10, CPU loading 40%) 0.32A @ 28.8V, 10.45W 0.33A@ 24V, 8.11W 0.35A@ 19.2V, 6.93W
	Minimal (I/O minimum loading, Windows 10, CPU loading: Idle) 0.22A@28.8V, 6.43W 0.25A@24V, 5.87W 0.26A@19.2V, 4.88W

Optional Accessory

Display adaptor: DP to VGA / DP to DVI-I video adaptor
 Mess Storage (M.2 SSD): 32GB / 64GB / 128GB /256GB
 RAM (DDR3 SO-DIMM): 2G/ 4G/ 8G
 Universal DIN rail adapter
 Wall mounting kit

Dimensions

