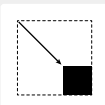


KUBE-2100

Heavy Industrial Gateway with Intel® Apollo Lake family processor



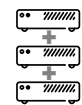
KUBE-2100 is a pocket size, ruggedize fanless industrial gateway designed for heavy industrial application. Powered by IP30 housing design, extended operating temperature design option for use in extreme environment. KUBE-2100 is ideal solution to meet different kinds of application in the Industry such as equipment connectivity, production process monitoring, environment management...etc.



Pocket size, only the size of palm



Cable-less design, more durable and stable



expandable design make it more flexible for different application

General

CPU	Intel® Celeron N3350, 2 cores, 1.1GHz/2.4 GHz, 6W TDP
Memory	on Board 2 GB LPDDR4 2400 MT/s, up to 4G(Optional)
Mass storage	onboard eMMC 5.0 flash 32 GB
Video Interface	1 x DP v1.4 4096 x 2160 @ 60Hz
Expansion	1 x M.2 key-E, 2230 for WIFI
Cooling	Fanless
Power input	12-30 VDC+/- 20% w/ RVP
Indicator LED	ERROR, RUN, POWER
Power switch	N/A
Operating systems	Windows® 10

I/O Interfaces

Power connector	1 x 2-Pin Terminal Block
USB	2 x USB 3.0
Ethernet	2 x 10/100/1000 GbE (Intel® i210)
RS-232	Optional on EXP model
RS-232/422/485 (BIOS configurable)	Optional on EXP model

Mechanical and Environment

Dimension (mm)	97x95x36(mm)
Net Weight	0.5 kg
Mounting/ Mounting option	Wall
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	EN 55022 / EN 55032
	IEC 61000-4-2
	Contact: +/- 8KV; criteria B
	Air: +/- 15 KV; criteria B
	IEC 61000-4-4
	Signal ports: +/- 0.5 KV; criteria B
	DC power ports: +/- 0.5 KV; criteria B
EMS	IEC 61000-4-5
	Signal ports: +/- 1 KV; criteria B
	DC power ports: +/- 0.5 KV FAIL
	IEC 61000-4-6
	Signal ports: 3 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A
	DC power ports: 3 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A

Optional Accessory

Display adaptor: DP to VGA / DP to DVI-I video adapter
 Mess Storage (M.2 SSD): 32GB / 64GB / 128GB /256GB(Optional)
 Universal DIN rail adapter
 Wall mounting kit

Others

	Maximum:(I/O full loading, windows 10, CPU loading: 100%)
	2.38A@ 9V, 21.42W
	0.8A@24V, 19.2W
	0.5A@ 36V, 18W
	Typical (Typical (I/O basic loading ,Windows 10, CPU loading 40%)
	1.32A@ 9V, 11.88W
	0.48A@24V, 11.52W
	0.3A@ 36V, 10.8W
	Minimal (I/O minimum loading, Windows 10, CPU loading: Idle)
	0.75A@ 9V, 6.75W
	0.25A@24V, 6W
	0.16A@ 36V, 5.76W

Power
consumption
(Typical, Max)

Dimensions

