

Quick Selection Guide



Item	KUBER- 2110	KUBER-212A	KUBER-212B	KUBER-212D	KUBER-212E	KUBER-212G
CPU	Intel® Celeron N3350, 2 cores, 1.1GHz/2.4 GHz, 6W TDP					
Memory	4GB onboard LPDDR4, 2400MT/S memory					
Mass Storage	32GB onboard eMMC 5.0 flash; up to 256 GB (optional)					
Power Input	12-30VDC (+/- 20%)					
Indicator LED	Power (Green), Run (Green)					
Operating Systems	Windows® 10 IoT Enterprise LTSB 2016 (64-bit) / Yocto v2.5.1					
Expansion	1 x M.2 Key E 2230					
Basic I/O Interface						
Power Connection	1 x 2-pin screw-type terminal block					
Ethernet	2 x 10/100/1000 GbE (Intel® i210)					
USB	2 x USB 3.0					
Display	1 x DP v1.4 4096 x 2160 @ 60Hz					
Environment						
Operating Temperature	0 °C ~ 50 °C @ 5~85% RH with no airflow					
Storage Temperature	-40 °C ~ 85 °C					
Vibration	1g (DIN EN 60068-2-6)					
Shock	15g (EN 60068-2-27)					
Certification	CE, FCC (EN55022, EN55032) / CE (EN 61000-6-4, Class A, EN 61000-6-2) FCC (CFR Title 47 Part15 Subpart B: 2018 Class A)					
Mechanical						
Degree of Protection	IP30					
Dimension (mm)	99(L) x 46(W) x 92(D)	99(L) x 63(W) x 92(D)				
Net Weight (Kg)	0.55	0.65				
Mounting	DIN rail and wall mounting options					
Cooling	Fanless					
Expansion I/O list						
Power connection	N/A	N/A	N/A	1 x 2-pin screw-type terminal block (24VDC)	N/A	N/A
Ethernet/ POE		2 x 10/100/1000 GbE (Intel® i210), with isolation	2 x 10/100/1000 GbE (Intel® i210)	3 x 802.3af PoE GbE (Power budget 31W)	N/A	N/A
COM/Console		1 x RS-232/422/485 (BIOS configurable, 5V & 12V selectable), with isolation	1 x CANbus	N/A	1 x RS-232 1 x RS-232/422/485 (BIOS Configurable)	2 x RS-232
USB		N/A	N/A	N/A	N/A	4 x USB 2.0
I/O		N/A	4 x GPIO	N/A	N/A	N/A
Expansion Slot		N/A	1 x Mini-PCIe/mSATA 1 x M.2 Key E 2230	N/A	1 x M.2 Key B 2242 1 x Mini-PCIe	1 x M.2 Key B 2242 1 x Mini-PCIe

*The specifications are subject to change without notice.



Ultra-Compact Modular IIoT Gateway

Mission Critical Engine
KUBER-2000Series



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KUBER-2000 Core System



Maximal Compactness

99mm (L) x 46mm (W) x 92 mm (D) only; minimal space required for Wall/DIN-rail Mount installation



Fanless Aluminum Chassis

Advanced aluminum chassis design to optimize thermal solution and the cable-less design for easy maintenance



Powerful Performance Core Computing

High performance and energy-saving Intel® Apollo Lake Processor plus onboard 4GB LPDDR4 and 32GB eMMC



Diverse Operating System

Compatible with various OS, such as Microsoft® Windows™, Linux®, ubuntu® and Yocto Project®



IoT Integration Support

Support Universal IoT connector (UIT), Microsoft® Azure® through Wi-Fi®, Bluetooth®, LTE™ or LoRa®



Heavy Industrial Environment

Heavy industrial grade of EMI (IEC 61000-6-4) / EMC (IEC 61000-6-2); extended voltage (12~30 VDC) for mission critical environment



PLC Standards Compliance

Compliant with IEC 61131-2 EMC specifications and UL 61010-2-201 requirement



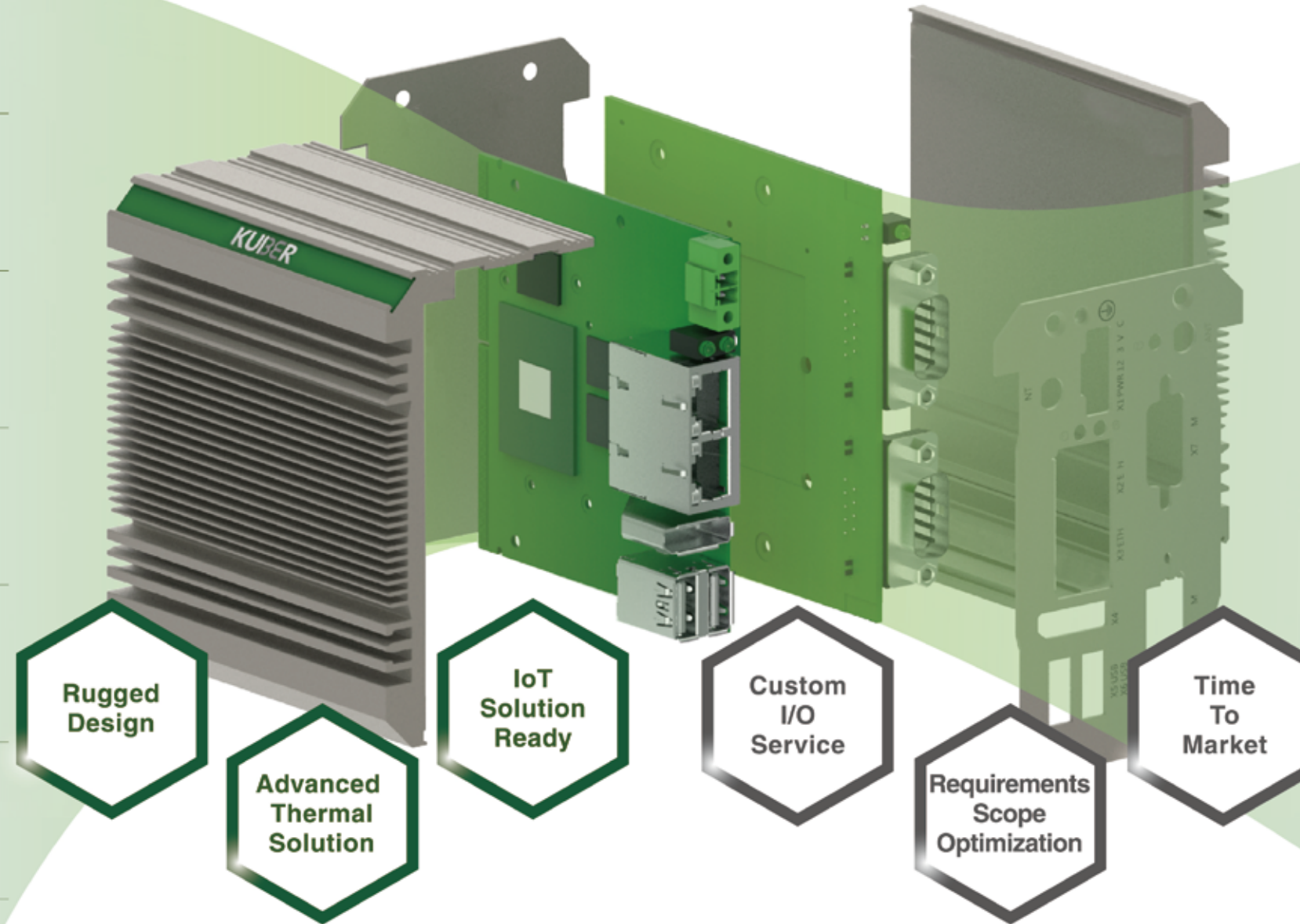
24/7 Reliability

Extended temperature and high shock/vibration resistance design to ensure non-stop 24/7 operation



Wide Range Applicability

Operate versatily as IIoT gateway, warehousing and logistics controller as well as data collector and power transmitter



Rugged Design

Advanced Thermal Solution

IoT Solution Ready

Custom I/O Service

Requirements Scope Optimization

Time To Market

KUBER-2000 Customized Expansion

Soft PLC KUBER-212E



2 COM ports
1 Mini PCIe
1 M.2 Key B

PoE Gateway KUBER-212D



3 POE LANs

AGV Controller KUBER-212B



2 LAN ports 、 1 CAN Bus
4 GPIOs 、 1 Mini PCIe
1 M.2 Key E

IoT Gateway KUBER-212G



4 USB ports 、 2 COM ports
1 Mini PCIe 、 1 M.2 Key B

Edge Controller KUBER-212A



2 isolated LANs
1 isolated COM

ECO System

Chipset	Operation System	IOT / Cloud	AI Accelerator	Wireless Connection
 Intel X86 platform + Intel® Atom™ + Intel® Celeron® + Intel® Pentium®	 Wide range OS compatible + Microsoft® Windows™ + Linux® Platform + ubuntu® + Yocto Project®	 IoT/ Cloud computing support + Microsoft® Azure® + Universal IoT Connector (UIC) Planning to support more + Amazon Web Services (AWS) + Google Cloud	 More potential support + Intel® Movidius™ + Intel® FPGA	 Through expansion card + Wi-Fi® + Bluetooth® + LTE™ + LoRa®

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