

KBox A-151-RPL

Embedded Box PC



Industrial Computer Platform for Control & Process Optimization

- Based on 13th Generation Intel® Core™ U-Series
- Broad range of interfaces with WI-FI and LTE/5G option
- Flexible system expansion via I/O door
- Passive cooling concept, option for extended temperature range

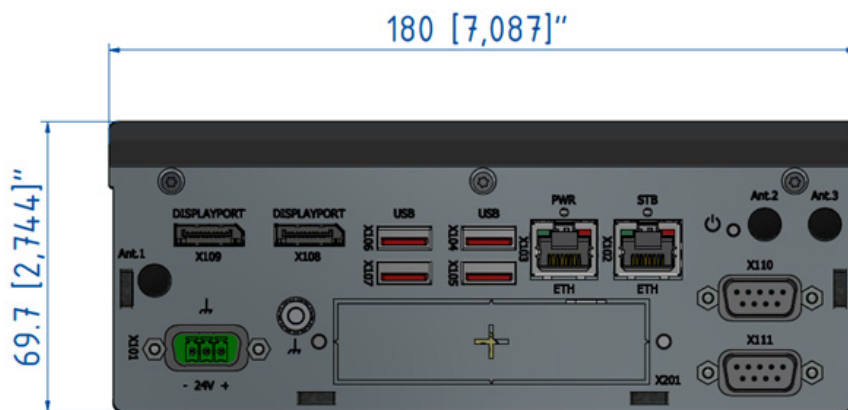
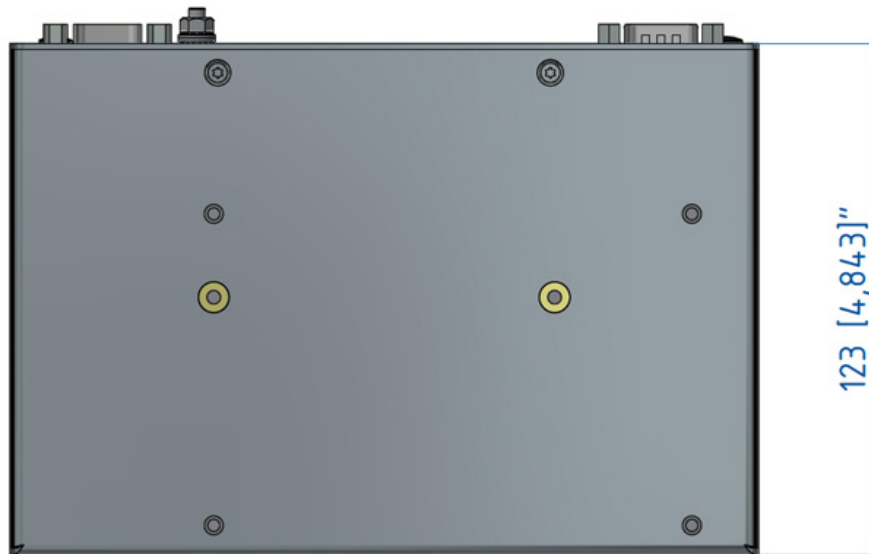
PROCESSOR	CPU SPEED BIOS	13th Gen Intel® Core™ i3-1315UE / i3-1315URE / i5-1345UE / i5-1345URE / i7-1365UE / i7-1365URE or Intel® Processor U300E Deca-Core up to 1.7 GHz / 4.9 GHz (Burst) AMI® Aptio V5
MEMORY	TECHNOLOGY MAX. CAPACITY	DDR5 Up to 96 GByte
GRAPHICS	GRAPHICS CORE MAX. RESOLUTION	Intel® Iris® Xe Graphics or Intel® UHD Graphics 7680 x 4320 @ 60Hz
INTERFACES	GRAPHICS PORTS USB ETHERNET SERIAL PORTS BUTTONS/LED	2x DisplayPort 4x USB 3.2 2x 2.5 GbE 2x COM ports RS232 Power Button & LED, Standby LED
OPTIONAL INTERFACES	WIRELESS TECHNOLOGY EXPANSION VIA I/O DOOR	Option for WI-FI 6 or LTE/5G Option for Ethercat, Dual CAN, additional GbE and DisplayPort, COM ports, 8x GPIO/DIO or Audio
STORAGE	M.2 SSD	Up to 2 TByte NVME via M.2 Key M
EXPANSION SLOT	M.2	1x M.2 Key M 2280 socket, used for storage 1x M.2 Key E 2230 socket 1x M.2 Key B Type 2242/3042/3052/2280 socket
SOFTWARE SUPPORT	OPERATING SYSTEM TOOLSET	Win10 IoT Enterprise, Win 11 IoT Enterprise, Linux Debian KontronOS* KontronGrid** Kontron FabEagle®Connect***
MECHANICAL	CONSTRUCTION MOUNTING DIMENSIONS (W x H x D) WEIGHT	Steel DIN RAIL, Bookmount 180 x 70 x 123 mm (7.09" x 2.76" x 4.84") Approx. 2.0 kg (4.41 lbs)
ENVIRONMENTAL	COOLING OPERATING TEMPERATURE RELATIVE HUMIDITY	Fanless Standard: 0 °C to +60 °C (32 °F to 140 °F) Extended: -40 °C to +60 °C (-40 °F to 140 °F) 93 % @ 40 °C non-condensing
APPROVALS	CERTIFICATIONS	CE, UL 61010, CB, FCC, UKCA

*KontronOS: Hardened Linux®-based operating system for the reliable operation of customer applications on edge devices

**KontronGrid: Complete fleet management solution for edge devices and container based applications

***FabEagle®Connect: Low-code integration solution for standardized data interfaces for machines and IoT applications

More information: <https://www.susietec.com/en/solutions/software>



ARTICLE	PART NO.	DESCRIPTION
HOUSING	Box A-151-RL1 KBox A-151-RLA	KBox A-151-RPL Housing KBox A-151-RPL with Automotive Battery
3.5"-SBC	u3c i3c i3i i5c i5i i7c i7i	Intel® Core™ U300E (5C, 1.1/4.3 GHz) Intel® Core™ i3-1315UE (6C, 1.2/4.5 GHz) Intel® Core™ i3-1315URE (6C, 1.2/4.5 GHz) Intel® Core™ i5-1345UE (10C, 1.4/4.6 GHz) Intel® Core™ i5-1345URE (10C, 1.4/4.6 GHz) Intel® Core™ i7-1365UE (10C, 1.7/4.9 GHz) Intel® Core™ i7-1365URE (10C, 1.7/4.9 GHz)
MEMORY	-8 -16 -32 -64	8 GByte SODIMM DDR5 16 GByte SODIMM DDR5 32 GByte SODIMM DDR5 64 GByte SODIMM DDR5
M.2 #1 (KEY M)	-000 -128 -256 -512 -01T	Empty M.2 128 GByte M.2 NVME 256 GByte M.2 NVME 512 GByte M.2 NVME 1 TByte M.2 NVME
M.2 #2 (KEY B)	-0 -L -5	Empty M.2 LTE/4G module for Europe 5G Module for Europe
M.2 #3 (KEY E)	-0 -W -D	empty M.2 WI-FI 6 only (w/o LTE, Dual CAN, Ethercat or Dual LAN) WI-FI 6 with additional M.2 (LTE, Dual CAN, Ethercat or Dual LAN)
EXPANSION SLOT	-0 -G -R -A -I -L -C -E -D -N	no Expansion 8x channel DIO/GPIO Module (via USB) 2x Additional RS232 (via USB to COM Adapter) Audio Line-Out (via audio header) Extension I/O Board with 2x LAN, 2x DP Extension I/O Board with 4x LAN Dual CAN (occupies M.2 #2, can't be used together with LTE or 5G module) EtherCAT via Hilscher (occupies M.2 #2, can't be used together with LTE or 5G module) Dual LAN EGPL-G201(occupies M.2 #2, can't be used together with LTE or 5G module) Antenna break-outs (only needed if more than 3x antennas will be attached)
MOUNTING	-0 -1 -2 -3 -4	no DIN-Rail DIN Rail Rear (Bookmount/vertical orientation) DIN Rail on bottom plate (wiring up/down only) Bookmount, via adapter plate Rugged DIN Rail Rear (Bookmount/vertical orientation)
SOFTWARE	-00 -10 -10 -10 -11 -11 -11 -LI	no Software Windows 10 IoT Ent. 2021 Entry for Celeron Windows 10 IoT Ent. 2021 Value for Core i3/i5 Windows 10 IoT Ent. 2021 High-End for Core i7 Windows 11 IoT Ent. 2024 Entry for Celeron Windows 11 IoT Ent. 2024 Value for Core i3/i5 Windows 11 IoT Ent. 2024 High-End for Core i7 Debian Linux

ACCESSORIES	ORDERING CODE	DESCRIPTION
AC/DC ADAPTER	ER40-100012-01	AC-Adapter external 90 W/ 24 VDC
POWERCORD	840-0059 840-0115 840-0405	Powercord EU Powercord UK Powercord US
POWER CONNECTOR	EE04-100001-01	Phoenix connector 3pol. incl. Housing, without PSU

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