

# KBox A-151-AML/ADN

## Embedded Box PC



## Industrial Computer Platform for Control & Process Optimization

- ▶ Based on Intel® N-series, Intel® Core™ i3 N-Series and Intel Atom® X7000 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

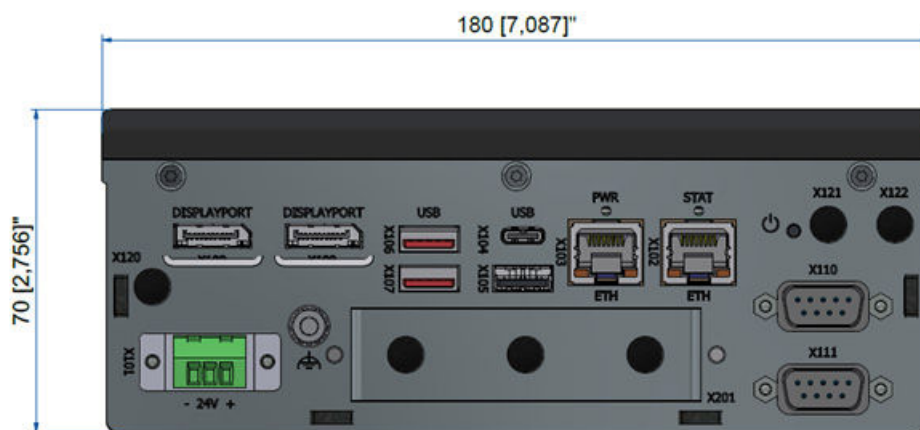
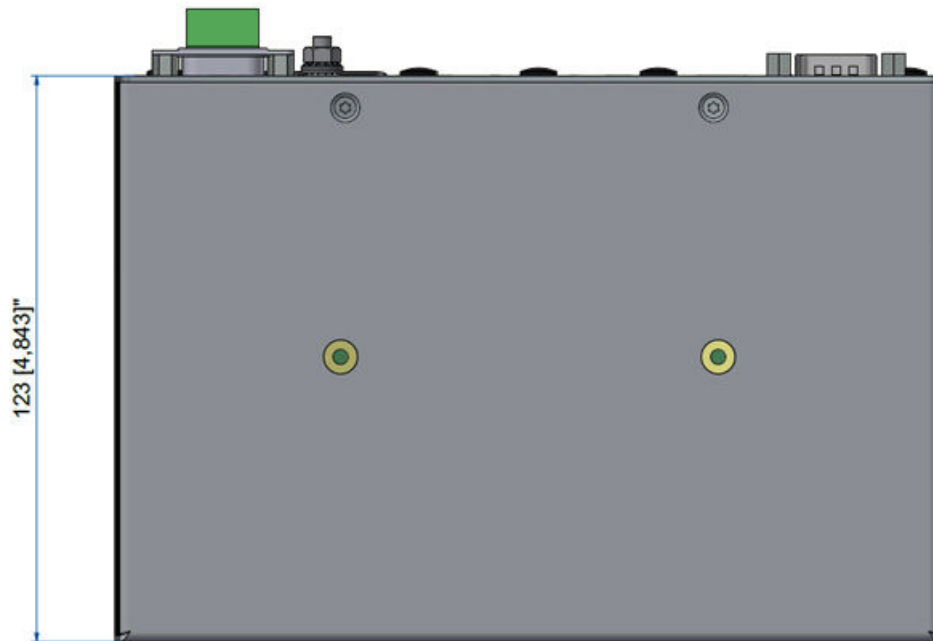
<b>PROCESSOR</b>	<b>CPU</b>	Intel® N97 (4x3.6 GHz, 12W ) Intel® Core™ i3-N305 (8x3.8GHz, 15W) Intel Atom® x7211RE (2x3.2GHz, 6W) Intel Atom® x7433RE (4x3.4GHz, 9W) Intel Atom® x7835RE (8x3.6GHz, 12W) Octa-Core up to 3.6 GHz (Burst) AMI® Aptio V5
	<b>SPEED BIOS</b>	
<b>MEMORY</b>	<b>TECHNOLOGY MAX. CAPACITY</b>	DDR5 up to 16 GByte
<b>GRAPHICS</b>	<b>GRAPHICS CORE MAX. RESOLUTION</b>	Intel® UHD Graphics 7680 x 4320 @ 60Hz
<b>INTERFACES</b>	<b>GRAPHICS PORTS USB</b>	2x DisplayPort 2x USB 3.2 (Type A) 1x USB 3.2 (Type C) 1x USB 2.0 (Type A)
	<b>ETHERNET SERIAL PORTS BUTTONS/LED</b>	2x 2.5 GbE 2x COM ports RS232 Power Button & LED, Standby LED
<b>OPTIONAL INTERFACES</b>	<b>WIRELESS TECHNOLOGY EXPANSION VIA I/O DOOR</b>	Option for WI-FI 6 or LTE/5G Option for Ethercat, Dual CAN, additional GbE and DisplayPort, COM ports, 8x GPIO/DIO or Audio
<b>STORAGE</b>	<b>M.2 SSD</b>	Up to 2 TByte via M.2 Key M
<b>EXPANSION SLOT</b>	<b>M.2</b>	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
<b>SOFTWARE SUPPORT</b>	<b>OPERATING SYSTEM TOOLSET</b>	Win10 IoT Enterprise, Win 11 IoT Enterprise, Linux Debian KontronOS* KontronGrid** Kontron FabEagle®Connect***
<b>MECHANICAL</b>	<b>CONSTRUCTION MOUNTING DIMENSIONS (W x H x D) WEIGHT</b>	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)
<b>ENVIRONMENTAL</b>	<b>COOLING OPERATING TEMPERATURE</b>	Fanless Standard: 0 °C to +60 °C (32 °F to 140 °F) Extended: -40 °C to +60 °C (-40 °F to 140 °F)
	<b>RELATIVE HUMIDITY</b>	93 % RH at 40 °C, non-condensing
<b>APPROVALS</b>	<b>CERTIFICATIONS</b>	CE, UL 61010, CB, FCC, UKCA

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

\*\*K-PORTKontronGrid: 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-AN1 KBox A-151-ANA	KBox A-151-AML/ADN Housing KBox A-151-AML/ADN with Automotive Battery
3.5"-SBC	N97 N30 x72 x74 x78	Intel® Core™ N97 (4x3,6 GHz, 12W ) Intel® Core™ i3-N305 (8x3,8GHz, 15W) Intel Atom® x7211RE (2x3,2GHz, 6W) Intel Atom® x7433RE (4x3,4GHz, 9W) Intel Atom® x7835RE (8x3,6GHz, 12W)
MEMORY	-8 -16	8 GByte SODIMM DDR5 16 GByte SODIMM DDR5
M.2 #1 (KEY M)	-000 -128 -256 -512 -01T	Empty M.2 128 GByte M.2 SATA 256 GByte M.2 SATA 512 GByte M.2 SATA 1 TByte M.2 SATA
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 -11 -LI	no Software Windows 10 IoT Ent. 2021 Windows 11 IoT Ent. 2024 Debian Linux

ACCESSORIES	ORDERING CODE	DESCRIPTION
AC/DC ADAPTER	ER40-100001-01	AC-Adapter external 50 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

## Global Headquarters

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