

KBox A-151-TGL

Embedded Box PC



Industrial Computer Platform for Control & Process Optimization

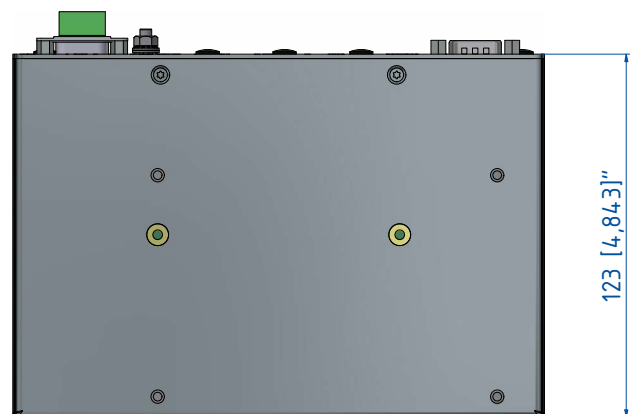
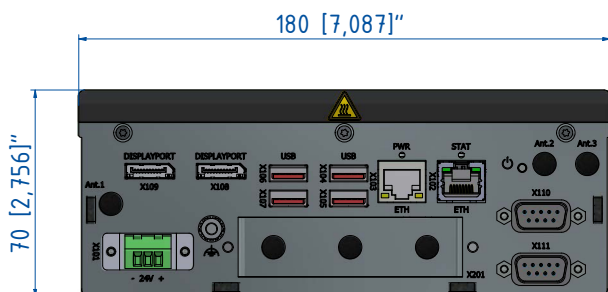
- Based on 11th Generation Intel® Core™ U-Series
- Broad range of interfaces with WIFI and LTE/5G option
- Flexible system expansion via I/O door
- Passive cooling concept, option for extended temperature range
- Optional: Hardened and secure Linux®-based KontronOS operating system, KontronGrid fleet management solution

PROCESSOR	CPU SPEED BIOS	11th Gen. Intel® Core™ i3-1115G4E/i5-1145G7E/i5-1145GRE/i7-1185G7E/ i7-1185GRE or Celeron® 6305E Quad-Core up to 1.8 GHz/4.4 GHz (Burst) AMI® Aptio V5
MEMORY	TECHNOLOGY MAX. CAPACITY	DDR4 Up to 64 GByte
GRAPHICS	GRAPHICS CORE MAX. RESOLUTION	Intel® Iris® X ^e Graphics or Intel® UHD Graphics 7680 x 4320 @ 60Hz
INTERFACES	GRAPHICS PORTS USB ETHERNET SERIAL PORTS BUTTONS/LED	2x DisplayPort 4x USB 3.2 1x 2.5 GbE and 1x GbE 2x COM ports RS232/422/485 Power Button & LED, Standby LED
OPTIONAL INTERFACES	WIRELESS TECHNOLOGY EXPANSION VIA I/O DOOR	Option for WIFI 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 1 TByte NVME via M.2 Key M
EXPANSION SLOTS	M.2	1x M.2 Key M 2280 socket, used for storage 1x M.2 Key E 2230 socket 1x M.2 Key B 2242/3042/2280 socket, with SIM card socket
10SOFTWARE SUPPORT	OPERATING SYSTEM TOOLSET	Windows® 10 IoT Enterprise LTSC 2019 pre-installed Linux Yocto (on request) KontronOS* KontronGrid**
POWER	INPUT VOLTAGE RANGE	24 VDC (9...30 VDC)
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)
ENVIRONMENT	COOLING OPERATING TEMPERATURE RELATIVE HUMIDITY	Fanless 0 °C to +60 °C (32 °F to 140 °F) standard -40 °C to +60 °C (-40 °F to 140°F) extended 93 % RH at 40 °C, non-condensing
APPROVALS	CERTIFICATIONS	CE, UL 61010, CB, FCC

* 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

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

Dimensions



ARTICLE	PART NO.	DESCRIPTION
HOUSING	KBox A-151-TL1 KBox A-151-TLA	KBox A-151-TGL Housing KBox A-151-TGL with Automotive Battery
3.5" SBC	Cel i3c i5c i7c	Celeron® 6305E 2x 1.8 GHz i3-1115G4E, 2x 2.2 GHz Comm. Temp. i5-1145G7E 4x 1.5 GHz Comm. Temp. i7-1185G7E 4x1.8 GHz Comm. Temp.
MEMORY	-04 -08 -16 -32 -64	4 GByte SODIMM DDR4 8 GByte SODIMM DDR4 16 GByte SODIMM DDR4 32 GByte SODIMM DDR4 64 GByte SODIMM DDR4 (on request)
M.2 #1 (KEY M)	-000 -128 -256 -512 -01T	empty M.2 128 GByte M.2 NVME Module 3D TLC 256 GByte M.2 NVME Module 3D TLC 512 GByte M.2 NVME Module 3D TLC 1 TByte M.2 NVME Module 3D TLC
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 Wifi6 only (w/o LTE, Dual CAN, Ethercat or Dual LAN) Wifi6 with additional M.2 (LTE, Dual CAN, Ethercat or Dual LAN)
EXPANSION SLOT	-0 -G -R -A -I -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 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	no DIN-Rail DIN Rail Rear (Bookmount/vertical orientation) DIN Rail on bottom plate (wiring up/down only) Bookmount, via adapter plate
SOFTWARE	-00 -WE -WV -WH -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 Ubuntu Linux 22.04 LTS

Accessories

AC/DC ADAPTER	ER40-100001-01	AC/DC Adapter, external, 50 W/24 VDC 40 °C
POWERCORD	840-0059 840-0115 840-0405/0-0064-4317	Powercord EU Powercord UK Powercord US
PHOENIX CONNECTOR	EE04-100001-01	Phoenix connector 3pol. incl. Housing, without PSU

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