kontron
The Power of IoT

KBox A-151-PTL

Industrial Computer Platform for Control and Process Optimization in AI Applications

Made in Europe | Long-Term Availability | Fanless Operation | Extended Temperature



intel ai

- Based on Intel® Core™ Ultra 300 series processors
- Up to 180 TOPS
- Broad range of interfaces with WI-FI and LTE/5G option
- Flexible system expansion via I/O door
- Passive cooling concept and option for extended temperature range

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Embedded Box PC

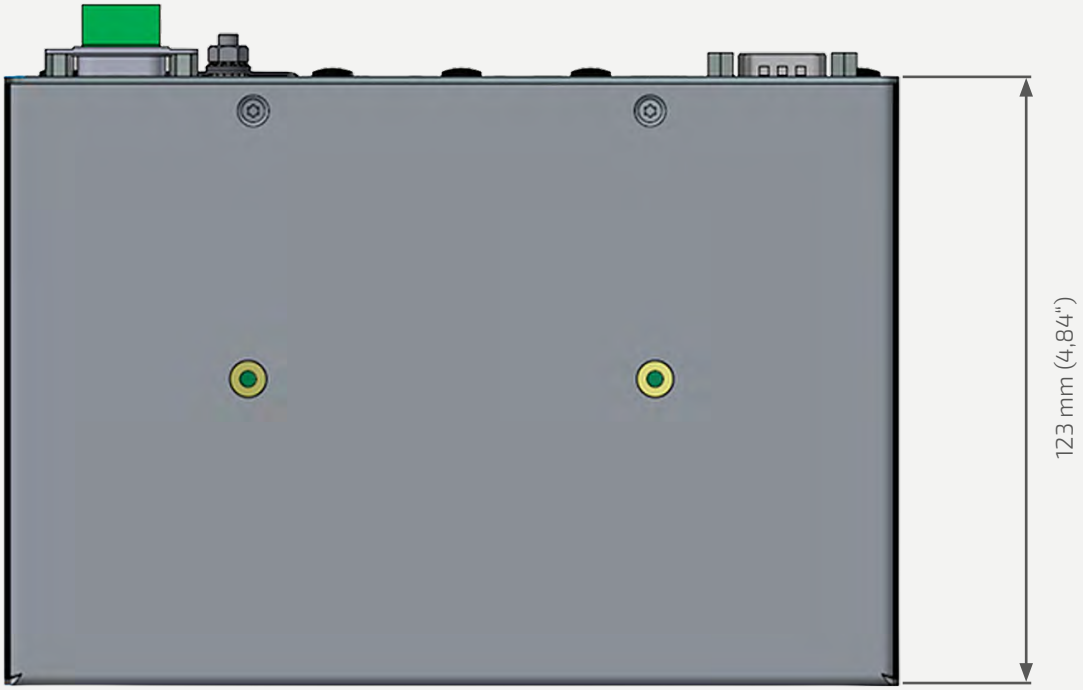
Technical Information

PROCESSOR	CPU	Intel® Core™ Ultra 5 325 / Ultra 5 335 / Ultra 7 356H / Ultra 7 358H
	Speed	8 / 16-Core with up to 4.8 GHz
	BIOS	AMI® Aptio V5
MEMORY	Technology	DDR5 with up to 7200 MT/s
	Max. Capacity	Up to 128 GByte
GRAPHICS	Graphics Core	Intel® Graphics, next-Gen Xe3 Architecture, up to 12 Xe-cores
	Max. Resolution	7680 x 4320 @ 60Hz
STANDARD INTERFACES	Graphics Ports	3x Display Port (1x via USB Type-C)
	USB	3x USB 3.2 (1x Type-C), 1x USB 2.0
	Ethernet	2x 2.5 GbE
	Serial Ports	2x RS232
	Buttons/LED	Power Button & LED, Standby LED
OPTIONAL INTERFACES	Wireless Technology	Option for WI-FI 7 and LTE/5G
STORAGE	M.2 SSD	Up to 2 TByte NVME via M.2 Key M
	Expansion via I/O Door	Option for Dual CAN, additional GbE and DisplayPort, COM ports, 8x GPIO/DIO or Audio, 2x RS232/RS422/RS485, 2x USB2.0
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 2242/3042/3052/2280 socket
SOFTWARE SUPPORT	Operating System	Win 11 IoT Enterprise, Linux Debian, KontronOS*
	Toolset	KontronGrid** Kontron FabEagle®Connect*** Intel® Robotics AI Suite
MECHANICAL	Construction	Steel
	Mounting	DIN RAIL, Bookmount
	Dimensions (WxHxD)	180 x 70 x 123 mm (7.09" x 2.76" x 4.84")
	Weight	Approx. 2.0 kg (4.41 lbs)
ENVIRONMENTAL	Cooling	Fanless
	Operating Temperature	Standard: 0 °C to +60 °C (32 °F to 140 °F) Extended: -40 °C to +60 °C (-40 °F to 140 °F)
	Relative Humidity	93 % @ 40 °C non-condensing

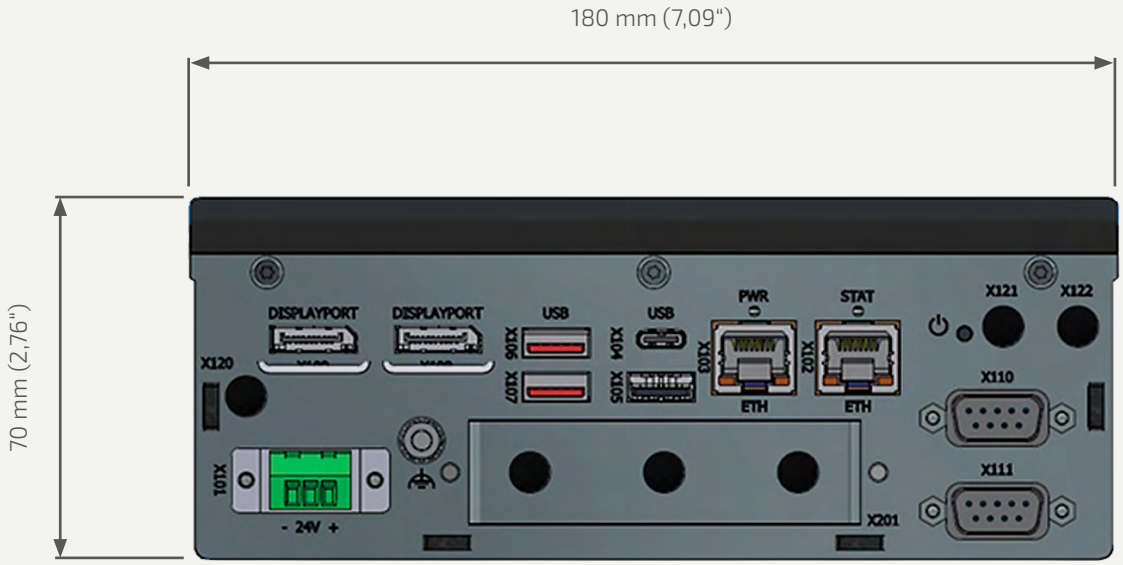
*KontronOS: Hardened Linux®-based operating system for the reliable operation of customer applications on edge devices
**KontronGrid: Complete fleet management solution for edge devices and container based applications
***FabEagle®Connect: Low-code integration solution for standardized data interfaces for machines and IoT applications
More information: https://www.kontron.com/en/products/software-solutions/c136878

Embedded Box PC

Dimensions: Depth



Dimensions: Height x Width



KBox A-151-PTL

Embedded Box PC

More
product info



Related Products

KBox A-151-PTL-ROBO

Industrial Computer Platform for Robotics and AI Powered by Intel® Core™ Ultra 300 Series



KBox A-151-AML/ADN

Compact Industrial Box PC for Edge Gateway Applications with Intel® N97, Intel® Core™ i3-N305 or Intel Atom® x7000 Series



KBox A-151-RPL

Industrial Computer Platform for Control & Process Optimization Based on 13th Gen Intel® Core™ U-Series



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