

KBox A-151-PTL-ROBO

Embedded Box PC for Robotics



Industrial Computer Platform for Robotics and AI

- Based on Intel® Core Ultra 300 Series
- Up to 180 TOPS
- Camera Interfaces for Visual AI
- GPIO for process interfaces
- Passive cooling concept and extended temperature

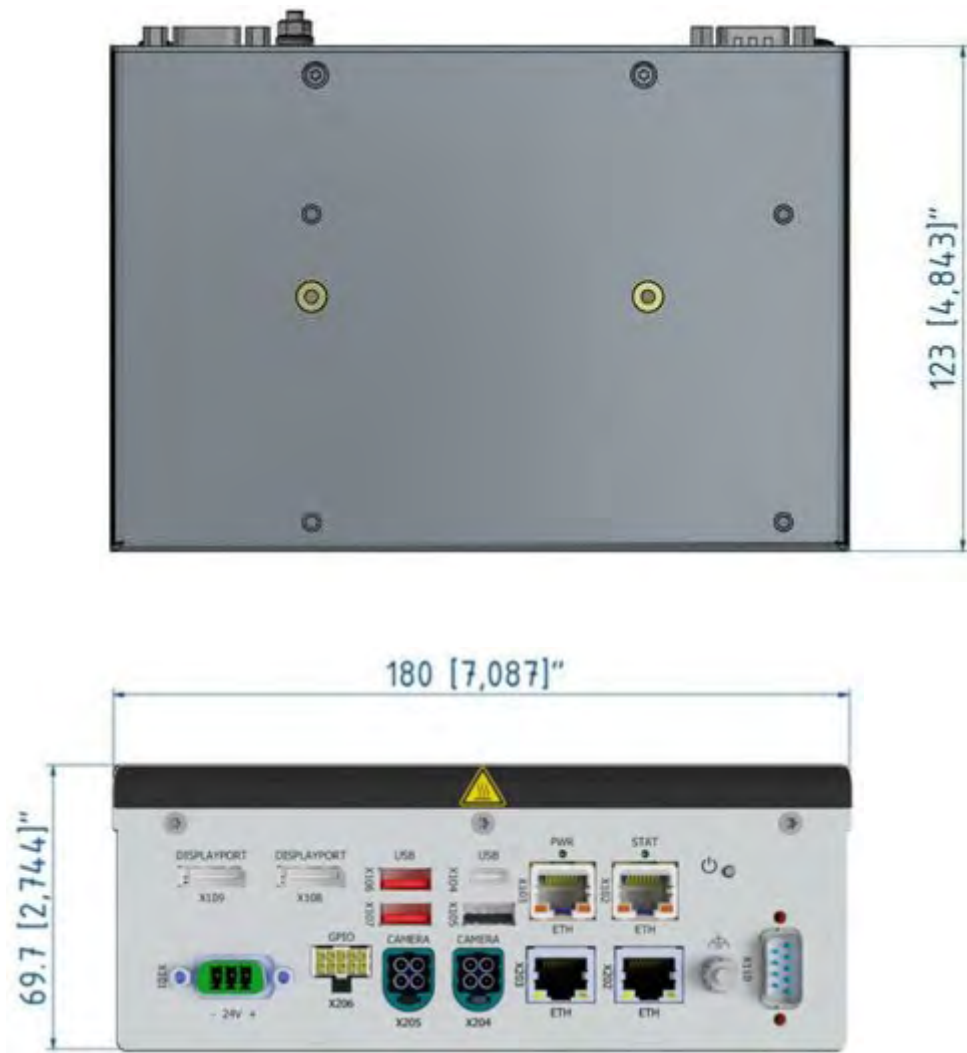
PROCESSOR	CPU SPEED BIOS	Intel® Core™ Ultra 5 325 / Ultra 5 335 / Ultra 7 356H / Ultra 7 358H 8 / 16-Core with up to 4.8 GHz AMI® Aptio V5
MEMORY	TECHNOLOGY MAX. CAPACITY	DDR5 with up to 7200 MT/s Up to 128 GByte
GRAPHICS	GRAPHICS CORE MAX. RESOLUTION	Next-Gen Xe3 Architecture, up to 12 Xe-cores 7680 x 4320 @ 60Hz
STANDARD INTERFACES	GRAPHICS PORTS USB ETHERNET SERIAL PORTS BUTTONS/LED	3x DisplayPort (1x via USB Type-C) 3x USB 3.2 (1x Type-C), 1x USB 2.0 2x 2.5 GbE 2x RS232/422/485 Power Button & LED, Standby LED
ROBOTICS / AI INTERFACES	CAMERA GPIO ETHERNET	2x FAKRA-Connector with up to 8 GMSL Cameras include power distribution 4x GPO (24V; optional 5V), 4x GPI (24V; optional 5V) 2x additional 2.5Gbe Ethernet (prepared for PoE option)
OPTIONAL INTERFACES	WIRELESS TECHNOLOGY	Option for WI-FI 6 or LTE/5G
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	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

*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/de/produkte/software-solutions/c136878>



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