kontron
The Power of IoT

Kontron KBox A-151-PTL-ROBO

Industrial Computer Platform for Robotics and AI

24/7 Continuous Operation

Fanless Operation

Long-Term Availability

Extended Temperature



intel robotics

- Intel® Robotics edge systems powered by Intel® Core™Ultra 300 Series
- Up to 180 TOPS
- Camera Interfaces for Visual AI
- GPIO for process interfaces
- Passive cooling concept and extended temperature

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Technical Information A-151-PTL-ROBO

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 DisplayPort (1x via USB Type-C)
	USB	3x USB 3.2 (1x Type-C), 1x USB 2.0
	Ethernet	2x 2.5 GbE
	Serial Ports	1x RS232 (optional CAN Bus)
	Buttons/LED	Power Button & LED, Standby LED
ROBOTICS / AI INTERFACES	Camera	2x FAKRA-Connector with up to 8 GMSL Cameras include power distribution
	GPIO	4x GPO (24V; optional 5V),4x GPI (24V; optional 5V)
	Ethernet	2x additional 2.5Gbe Ethernet (prepared for PoE option)
OPTIONAL INTERFACES	Wireless Technology	Option for WI-FI 7 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	Win 11 IoT Enterprise, Linux Debian
	Toolset	KontronOS* KontronGrid** Kontron FabEagle®Connect*** Compliant with 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

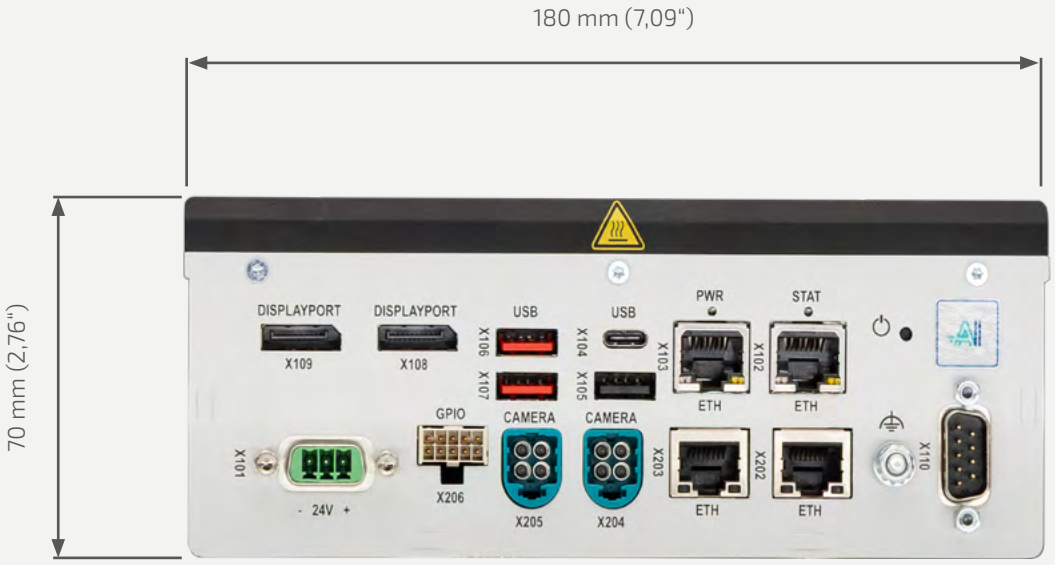
*KontronOS: Hardened Linux®-based operating system for the reliable operation of customer applications on edge devices
**KontronGrid: Complete fleet management solution for edge devices and container based applications
***FabEagle®Connect: Low-code integration solution for standardized data interfaces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

Industrial Computer Platform for Robotics and AI

Dimensions: Depth



Dimensions: Height x Width



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More
product info



Related Products

KBox A-151-RPL

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



KBox A-151-PTL

Industrial Computer Platform with AI for Control and Process optimization



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