

KBox A-230-LS



Compact Industrial Computer Platform for TSN Applications

- ▶ Based on NXP Dual Cortex A72 LS1028A
- ▶ 6x GbE (5x TSN capable, 1x GbE)
- ▶ Kontron APPROTECT security solution based on Wibu-Systems CodeMeter®
- ▶ Maintenance-free: no moving parts, battery-free

POSSIBILITIES START HERE



KBox A-230-LS

Gateway for TSN Applications

Based on the NXP Dual Cortex processor LS1028A the KBox A-230-LS is an industrial box PC with TSN (Time Sensitive Networking) functionality. This KBox is equipped with a SMARC module and has five TSN-capable 1 GByte Ethernet ports which meet IEEE 802.1 TSN specifications.

Integrated GPU and LCD controller in the CPU make Human Machine Interface (HMI) systems possible.

It is designed to run continuously and fully qualified for industrial operation. The two Arm®-v8 cores support real-time processing for industrial control, as well as virtual machines for edge computing in the IoT.

The A-230-LS is maintenance-free with no battery and no fan. It supports Kontron APPROTECT security solution based on Wibu-Systems CodeMeter®.

TECHNICAL INFORMATION

PROCESSOR	CPU SPEED	NXP Dual Cortex A72 LS1028A 2x 1.3 GHz
MEMORY	TECHNOLOGY MAX. CAPACITY	DDR3L with ECC 4 GByte
INTERFACES	GRAPHICS PORTS USB ETHERNET SERIAL PORTS	1x Display Port with DP++ 1x USB 3.0, 1x USB 2.0 4x GbE TSN Switch ports, 1x GbE TSN, 1x GbE COM1 RS232, Optional COM2 as RS232/RS485 or CAN
STORAGE	SD CARD FLASH MSATA M.2	1x mSD up to 64 GByte onboard flash (eMMC) 1x mSATA on mPCIe 1x M.2 SSD on Key B socket for 2242/3042 or 2260/3060 module
EXPANSION	miniPCIe	1x miniPCIe socket full/half-size modules with miniSIM Card support 1x miniPCIe/mSATA socket full/half-size modules
OTHERS	CONTROL WATCHDOG TIMER SECURITY	3x LEDs (Power, SSD, GP), Reset switch Watchdog support Kontron APPROTECT based on Wibu-Systems CodeMeter®
SOFTWARE SUPPORT	LINUX	Yocto
POWER	INPUT VOLTAGE RANGE	24 VDC (+/- 20 %)
MECHANICAL	CONSTRUCTION MOUNTING DIMENSIONS (W x H x D) WEIGHT	Aluminum housing DIN RAIL, Desktop, Wall, Cabinet 58 x 150 x 100 mm (2.23" x 5.91" x 3.94") Approx. 1.0 kg (2.2 lbs)
ENVIRONMENT	OPERATING TEMPERATURE STORAGE TEMPERATURE RELATIVE HUMIDITY OPERATING VIBRATION OPERATING SHOCK	0 °C to +60 °C (32 °F to 140 °F) -40 °C to +85 °C (-40 °F to 185 °F) 93 % @ 40 °C (non-condensing) acc. IEC 60068-2-6, 5-500 Hz, 1G acc. IEC 60068-2-27, half sine, 15 g, 11 ms
APPROVALS	EMC SAFETY CERTIFICATIONS	CE, FCC CB scheme, UL61010-1, UL61010-2-201

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