KBox A-150-WKL

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Industrial Computer Platform for Control & Process Optimization

▶ Based on 8th Generation Intel® Core™ U-Series processors
▶ Fanless passive cooling, turnable heatsink optional
▶ Flexible DIN RAIL mounting
▶ Broad range of interfaces and expansion capabilities

POSSIBILITIES START HERE

kontron
S&T Group

KBox A-150-WKL
DIN RAIL Embedded Box PC

With 8th Gen Intel® Core™ U or Intel® Celeron® processors, the KBox A-150-WKL delivers high computing performance with low power consumption. The compact Box PC offers a wide range of interfaces as well as numerous expansion options, predestining it for use in fieldbus environments, in process control as well as for industrial firewalls and many other embedded applications. The KBox A-150-WKL can be easily integrated into a wide range of industrial environments by means of a DIN rail mounting option.

▶ TECHNICAL INFORMATION

PROCESSOR	CPU SPEED BIOS	8th Gen. Intel® Core™ i3-8145UE/i5-8365UE/i7-8665UE or Celeron® 4305UE Quad-Core up to 1.7 GHz / 4.4 GHz (Burst) AMI® Aptio V5
MEMORY	TECHNOLOGY MAX. CAPACITY	DDR4 Up to 64 GByte
INTERFACES	GRAPHICS PORTS USB ETHERNET SERIAL PORTS	2x DisplayPort 4x USB 3.1 Gen2 2x 10/100/1000 MBits/s Ethernet with IEEE1588 support 2x RS232/422/485
STORAGE	M.2 SSD 2.5" SSD	Up to 512 GByte via M.2 2242 Up to 1 TByte via 2.5" SSD installed in removable drive bay
OPTIONAL INTERFACES	AUDIO WIFI CAN	Line Out WIFI module incl. 2x antennas CAN module with 2x CAN ports
EXPANSION SLOTS	M.2	1x M.2 Key M 2242/2280 socket 1x M.2 Key E 2230 socket 1x M.2 Key B 2242 socket, with SIM card holder
SOFTWARE SUPPORT	MICROSOFT WINDOWS LINUX	Windows® 10 IOT 2019 LTSC Ubuntu 20.04 LTS
POWER	INPUT VOLTAGE RANGE	24 VDC (9…30 VDC)
MECHANICAL	CONSTRUCTION MOUNTING DIMENSIONS (H x W x D) WEIGHT	Steel DIN RAIL 50 x 180 x 134 mm (with drive bay: H: 58 mm) approx 1.0 kg
ENVIRONMENT	COOLING OPERATING TEMPERATURE RELATIVE HUMIDITY	Fanless passiv 0 °C to + 40 °C (32 °F to 104 °F)/ with heatsink up to +50 °C (122 °F) 93 % RH at 40 °C, non-condensing
APPROVALS	CERTIFICATIONS	CE, CB, Safety UL61010, FCC planned

▶ DIMENSIONS

ARTICLE	PART NO.	DESCRIPTION
HOUSING	KBox-A-150-WKL	KBox A-150 Housing
3.5" SBC	-i38 -i58 -i78 -Cel	i3-8145UE 2x 2.2 GHz i5-8365UE 4x 1.6 GHz i7-8665UE 4x 1.7 GHz Celeron® 4305UE 2x 2.0 GHz
MEMORY	-04 -08 -16 -32	4 GByte SODIMM DDR4 8 GByte SODIMM DDR4 16 GByte SODIMM DDR4 32 GByte SODIMM DDR4
M.2 SSD	-000 -064 -128 -256 -512	empty M.2 64 GByte M.2 SSD module 128 GByte M.2 SSD module 256 GByte M.2 SSD module 512 GByte M.2 SSD module
2.5" SSD	-w/o -000 -128 -256 -512 -01T	no drive bay empty drive bay 128 GByte 2.5" SSD installed in drive bay 256 GByte 2.5" SSD installed in drive bay 512 GByte 2.5" SSD installed in drive bay 1 TByte 2.5" SSD installed in drive bay
OPTIONS	-0 -W -C -A	no optional modules WIFI with 2x antennas Dual CAN Audio Line Out
SOFTWARE	-000 -W1E -W1V -W1H - LIN	no software Windows 10 IoT Ent. 2019 LTSC for Celeron® Windows 10 IoT Ent. 2019 LTSC for Core™ i3/i5 Windows 10 IoT Ent. 2019 LTSC for Core™ i7 Ubuntu Linux 20.04 LTS
HEATSINK	-0 -1	no heatsink with heatsink, for operating temp >40 °C

ACCESSORY

AC/DC ADAPTER	ER40-100001-01	AC/DC Adapter, external, 50 W/24 VDC

▶ GLOBAL HEADQUARTERS

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