

# Datasheet

## KBox A-103

### Kontron

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# KBox A-103

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## SCALABLE FANLESS AND COMPACT INDUSTRIAL COMPUTER PLATFORM FOR FACTORY AUTOMATION

- ▶ modular approach - Forever Young
- ▶ wartungsfrei (maintenance-free): no moving parts, battery-free
- ▶ proven building blocks - easy customization
- ▶ IoT ready - simply connected

POSSIBILITIES START HERE



# KBox A-103

## SCALABLE FANLESS AND COMPACT

With a wide range of functions and interfaces, the KBox A-103 is ready for the Internet of Things (IoT) using the WIFI, GPRS or LTE options via the miniPCIe interface. The KBox A-103 is based on a modular approach that ensures simple upgrades to the next processor generation ("Forever Young") for changing performance re-

quirements. The wartungsfrei (maintenance-free) design minimizes the total cost of ownership (TCO) while ensuring utmost availability. The KBox A-103 supports a wide input range and can be operated in an extended temperature range from -20° to +70° C.

### TECHNICAL INFORMATION

PROCESSOR	CPU MAX. SPEED BIOS	up to Intel® Atom™ 3845 4x 1.91 GHz Phoenix BIOS
MEMORY	TECHNOLOGY MAX. CAPACITY	DDR3L 8 GByte
INTERFACES	SERIAL PORTS USB GRAPHICS PORTS ETHERNET	1x RS232, optional: 2 <sup>nd</sup> COM as RS232 or RS422/485, 3 <sup>rd</sup> COM as RS422/485 1x USB 3.0, 2x USB 2.0 1x Display Port, 1x VGA optional 2x GbE, IEEE1588 support
OTHERS	LEDs DIGITAL IO WATCHDOG TIMER SIM CARD	2x LEDs (Power, SSD) 4x TTL in, 4x TTL out as option 255 levels timer interval, setup by software SIM Card holder on board
EXPANSION	miniPCIe	2x miniPCIe sockets
STORAGE	SATA FLASH MSATA	Drive Bay to install 1x 2.5" SATA SSD up to 16 GByte onboard flash (eMMC) optional 1x mSATA socket
SOFTWARE SUPPORT	MICROSOFT WINDOWS LINUX	Windows Embedded 8.1 Industry, Windows Embedded Compact 7 Ubuntu
POWER	INPUT VOLTAGE RANGE	10 to 30 V DC
POWER CONSUMPTION	TYPICAL	11 W
MECHANICAL	CONSTRUCTION MOUNTING DIMENSIONS (W X H X D) WEIGHT	Aluminum housing DIN RAIL, Desktop, Wall, Cabinet, VESA Mounting 210 x 65 x 140 mm (8.27" x 2.56" x 5.51") 2.5 kg (5.51 lb)
ENVIRONMENT	OPERATING TEMPERATURE STORAGE TEMPERATURE RELATIVE HUMIDITY OPERATING VIBRATION OPERATING SHOCK MTBF EMC SAFETY CERTIFICATIONS	-20° C to +70° C (-4° F to 158° F) -40° C to +85° C (-40° F to 185° F) 95% @ 40° C (non-condensing) acc. IEC 60068-2-6, 10-150 Hz, 1G acc. IEC 60068-2-27, half sine, 15 g, 11 ms 120.000 h at 30° C CE UL

### ORDERING INFORMATION

RECOMMENDED CONFIGURATION	DESCRIPTION	MATERIAL NUMBER
KBox A-103	SMARC-sXBTi E3845, 4 GByte RAM, 16 GByte eMMC, 60 GByte SSD, vertical mount	Z-A0DF-2003

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