

# KBox A-103

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## Scalable Fanless and Compact Industrial Computer Platform for Factory Automation

- ▶ Modular approach - Forever Young
- ▶ 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

requirements. The maintenance-free design minimizes the total cost of ownership (TCO) while ensuring utmost availability. The KBox A-103 supports 24 V DC input range and can be operated in an extended temperature range from -20 °C to +60 °C.

### ▶ TECHNICAL INFORMATION

<b>PROCESSOR</b>	<b>CPU MAX. SPEED BIOS</b>	up to Intel® Atom™ E3845 4x 1.91 GHz Phoenix® BIOS
<b>MEMORY</b>	<b>TECHNOLOGY MAX. CAPACITY</b>	DDR3L, with ECC, soldered 4 GByte
<b>INTERFACES</b>	<b>SERIAL PORTS USB GRAPHICS PORTS ETHERNET</b>	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 2x GbE, IEEE1588 support, WOL support On project request: 2x additional GbE via mPCIe, IEEE802.3 support
<b>STORAGE</b>	<b>SATA FLASH MSATA</b>	Drive Bay to install 1x 2.5" SATA SSD up to 16 GByte onboard flash (eMMC) optional 1x mSATA socket
<b>EXPANSION</b>	<b>miniPCIe</b>	2x miniPCIe sockets for full-size modules (1x for Fieldbus expansion, 1x with SIM Card socket)
<b>OTHERS</b>	<b>CONTROL FIELDBUS DIGITAL IO WATCHDOG TIMER</b>	Power button, 2x LEDs (Power, SSD) Profibus support optional 4x TTL in, 4x TTL out as option 255 levels timer interval, setup by software
<b>SOFTWARE SUPPORT</b>	<b>MICROSOFT WINDOWS®  LINUX</b>	Windows® 10, Windows® Embedded 8.1 Industry, Windows® 7, Windows® Embedded Standard 7, Yocto
<b>POWER</b>	<b>INPUT VOLTAGE RANGE</b>	24 VDC (+20 % / -15 %)
<b>POWER CONSUMPTION</b>	<b>TYPICAL</b>	11 W
<b>MECHANICAL</b>	<b>CONSTRUCTION MOUNTING DIMENSIONS (W X H X D) WEIGHT</b>	Aluminum housing DIN RAIL, Desktop, Wall, Cabinet, VESA Mounting 210 x 65 x 140 mm (8.27" x 2.56" x 5.51") max. 2.5 kg (5.51 lb)
<b>ENVIRONMENT</b>	<b>OPERATING TEMPERATURE STORAGE TEMPERATURE RELATIVE HUMIDITY OPERATING VIBRATION OPERATING SHOCK MTBF</b>	-20 °C to +60 °C (-4 °F to 140 °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
<b>APPROVALS</b>	<b>EMC SAFETY CERTIFICATIONS</b>	CE, FCC CB scheme, UL 60950-1, UL 61010-1 & 61010-2-201

### ▶ ORDERING INFORMATION

ARTICLE	MATERIAL NUMBER	DESCRIPTION
<b>RECOMMENDED CONFIGURATION</b>		
<b>KBox A-103</b>	2-A0DF-2004	SMARC-sXBTi E3827, 2 GByte RAM, 60 GByte SSD, vertical mount
<b>KBox A-103</b>	2-A0DF-2008	SMARC-sXBTi E3845, 4 GByte RAM, 16 GByte eMMC, 60 GByte SSD, Windows® 10 IoT, vertical mount
<b>ACCESSORIES</b>		
<b>AC/DC ADAPTER KBOX A-103</b>	1059-5711	AC/DC Adapter 230 VDC to 24 VDC, 60 W

### ▶ Global Headquarters

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