

KBox A-103



SCALABLE FANLESS AND COMPACT BOX PC FOR FACTORY AUTOMATION

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

KBox A-103

SCALABLE FANLESS AND COMPACT

With a wide range of functions and interfaces, the KBoxA-103 is ready for the Internet of Things (IoT) using the wifi options via the mini PCI interface and GPRS and LTE data transmissions via the optional SIM card slot. The KBox A-103 is equipped with scalable SMARCTM modules. The modular approach ensures simple up-

grades to the next processor generation ("Forever Young") for changing performance requirements. With the "maintenance-free" design, the KBox A-103 does not require any additional batteries for operation, it is very reliable (high MTBF) and easily adapts to customer requirements.

TECHNICAL INFORMATION

PROCESSOR SYSTEM	CPU MAX. SPEED BIOS	up to Intel® Atom™ 38xx 4x 1.91 GHz UEFI
MEMORY	TECHNOLOGY MAX. CAPACITY SOCKET	DDR3 L 8 GB 1x 204-pin SO-DIMM
GRAPHICS	DISPLAY PORT	1x Display Port, 1x VGA
ETHERNET	LAN1 LAN2	Intel® i210IT Intel® i210IT
IO INTERFACE	SERIAL PORTS USB	1x RS232, optional: 2nd COM as RS232 or RS422/485, 3rd COM as RS422/485 1x USB 3.0, 2x USB 2.0
OTHERS	DIGITAL IO WATCHDOG TIMER SIM CARD	4x TTL in, 4x TTL out 255 levels timer interval, setup by software SIM Card holder on board
EXPANSION	MINI PCIe	2x MINI PCIe
STORAGE	SSD ON BOARD MSATA	1x 2.5" Bay for SSD Flash up to 16 GB 1x
SOFTWARE SUPPORT	MICROSOFT WINDOWS LINUX	Win 8 emb, Win 7, WES7, WEC 7 Linux Fedora, Ubuntu
POWER REQUIREMENT	POWER INPUT VOLTAGE	10 to 30 V DC
POWER CONSUMPTION	TYPICAL MAX.	22 W 50 Watt
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 60°C (-4°F to 140°F) -40°C to 85°C (-40°F to 185°F) 95% @ 40° C (non-condensing) IEC 60068-2-6 10 - 500 Hz, 2 G IEC 60068-2-27 half sine 11 ms 15 g 120.000 h at 30 °C CE/FCC UL

ORDERING INFORMATION

RECOMMENDED CONFIGURATION	DESCRIPTION	MATERIAL NUMBER
KBox A-103	SMARC-sXBti E3845 4E/16GB, 56 GB SSD, WES 7, vertical mount	2-A0DF-2003
KBox A-103	SMARC-sXBti E3827 2GB , 120 GB SSD, WES 7, vertical mount	2-A0DF-2004
KBox A-103	SMARC-sXBti E3815 1GB, 60 GB SSD, WES 7, vertical mount	2-A0DF-2005