

KBox A-103



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

requirements. The wartungsfrei (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 -25° C to +70° C.

TECHNICAL INFORMATION

| | | |
|--------------------------|---|--|
| PROCESSOR | CPU MAX. SPEED BIOS | up to Intel® Atom™ E3845 4x 1.91 GHz Phoenix® BIOS |
| MEMORY | TECHNOLOGY MAX. CAPACITY | DDR3L 4 GByte |
| INTERFACES | SERIAL PORTS USB GRAPHICS PORTS ETHERNET | 1x RS232, optional: 2 nd COM as RS232 or RS422/485, 3 rd COM as RS422/485 1x USB 3.0, 2x USB 2.0 1x Display Port, 1x VGA optional 2x GbE, IEEE1588 support, WOL 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, Windows® 7, Windows® Embedded Standard 7 Ubuntu |
| POWER | INPUT VOLTAGE RANGE | 24 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 | -25° C to +70° C (-13° 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 | 2-A0DF-2003 |

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