

KBox A-250



Industrial Computer Platform for IoT Gateway Applications

- ▶ Based on a piTX-2.5" SBC with excellent price/performance ratio
- ▶ Intel Atom® x5-E39xx processor performance
- ▶ Intelligent IoT gateway for edge analytics, data collection, remote monitoring
- ▶ WiFi, GSM and LTE support (integrated WiFi and LTE modules optional)
- ▶ Supports Kontron APPROTECT based on WIBU Systems Technology

POSSIBILITIES START HERE



KBox A-250

Intelligent IoT Gateway

Based on the pITX-2.5" SBC with Intel Atom® processors of the E3900 series the KBox A-250 was developed as a cost optimized gateway for data intensive IoT edge applications.

For local data collection, e.g. link to sensor and machine level, it offers one serial port (RS232/485).

The connection to the IT infrastructure in general can be implemented through integrated gigabit ethernet interfaces or optional WiFi support.

Additional wireless technologies such as integrated LTE (4G) and GSM (2G/3G) are a further option.

The KBox A-250 is Microsoft Azure Certified, which makes it perfectly suited for working with Microsoft Azure IoT services.

TECHNICAL INFORMATION

| | | |
|------------------|--|---|
| PROCESSOR | CPU MAX. SPEED BIOS | Intel Atom® x5-E3930/E3940/E3950 4x 1.6 GHz (Max. Turbo frequency 4x 2.0 GHz) AMI® Aptio V |
| MEMORY | TECHNOLOGY MAX. CAPACITY | DDR3L-1867, SO-DIMM 8 GByte |
| INTERFACES | GRAPHICS PORTS USB ETHERNET SERIAL PORTS GPIO | 1x Display Port with DP++ 2x USB 3.0 2x GbE/Fast ETH, WOL support 1x RS232 8 pin GPIO |
| STORAGE | MICRO SD M.2 MSATA | mSD socket (internal) M.2 socket (form factor 2242, Key ID B or M) mSATA socket (up to 32 GByte) |
| EXPANSION | miniPCle LTE | miniPCle socket (half size) for WiFi expansion LTE mPCle CAT4 (up to 150Mbps downlink) |
| OTHERS | CONTROL WATCHDOG TIMER SECURITY | 4x LEDs (Power, M.2, 2x ETH) Watchdog support TPM 2.0 and APPROTECT |
| SOFTWARE SUPPORT | MICROSOFT WINDOWS® LINUX | Windows® 10 IOT Enterprise Yocto |
| POWER | INPUT VOLTAGE RANGE | 24 VDC (+/- 20 %) |
| MECHANICAL | CONSTRUCTION MOUNTING DIMENSIONS (W x H x D) WEIGHT | Aluminum housing DIN RAIL, Desktop, Wall, Cabinet 150 x 58 x 100 mm (5.91" x 2.28" x 3.94") Approx. 1.0 kg (2.2 lbs) |
| ENVIRONMENT | COOLING OPERATING TEMPERATURE STORAGE TEMPERATURE RELATIVE HUMIDITY OPERATING VIBRATION OPERATING SHOCK | Fanless 0 °C to +50 °C (32 °F to 122 °F) -40 °C to +85 °C (-40 °F to 185 °F) 93 % @ 40 °C (non-condensing) acc. IEC 60068-2-6, 5 -500 Hz, 1G acc. IEC 60068-2-27, half sine, 15 g, 11 ms |
| APPROVALS | EMC SAFETY CERTIFICATIONS | CE, FCC CB scheme, UL61010-1, UL61010-2-201 |

GLOBAL HEADQUARTERS

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