

Item no.: 385635

UC-8220-T-LX-AP-S - Arm Cortex-A7 dual-core 1 GHz IIoT gateway with integrated TPM module

from **1.104,23 EUR**

Item no.: 385635
shipping weight: 0.80 kg
Manufacturer: MOXA



Product Description

The compact fanless arm-based industrial computers from Moxa are wireless-capable and have comprehensive security functions. They are designed for space-critical applications. The computers are specifically designed for long-term operation, making them the ideal choice for remote monitoring and data acquisition applications.

Arm Cortex-A7 dual-core 1 GHz IIoT gateway with built-in TPM module, LTE Cat. 4 module pre-installed, 1 Mini PCIe expansion slot for a Wi-Fi module, 1 CAN port, 4 DIs, 4 DOs, -40 to 70°C operating temperature

Computer CPU- Armv7 Cortex-A7 Dual-Core 1 GHz DRAM- 2 GB DDR3L Supported operating system- Moxa Industrial Linux 1 (Debian 9, Kernel 4.4), 2027 EOL- Moxa Industrial Linux 3 (Debian 11, Kernel 5.10), 2031 EOL Memory Pre-installed- 8 GB eMMC Expansion slots- MicroSD (SD 3.0) socket x 1 Computer interface Ethernet ports- Auto-sensing 10/100/1000 Mbps ports (RJ45 connector) x 2 Serial ports- RS-232/422/485 ports x 2, software selectable (DB9 connector) CAN ports- CAN 2.0 A/B x 1 (DB9 connector) Digital input- DIs x 4 Digital output- DOs x 4 USB 2.0- USB 2.0 hosts x 1, Type A connectors Wi-Fi antenna connector- RP-SMA x 2 Cellular antenna connector- SMA x 2 GPS antenna connector- SMA x 1 Expansion slots- mPCIe slots x 1 SIM format- Nano Number of SIMs- 2 Buttons- Programmable button TPM- TPM v2.0 Ethernet interface Magnetic isolation protection- 1.5 kV (built-in) Security functions Hardware-based security- TPM 2.0- Hardware Root of Trust Secure Boot Intrusion Detection- Host-based Intrusion Detection Security Tools- Security Diagnostic Tool- Security Event Auditing- Secure Update Disk Protection- LUKS Disk Encryption Recovery- One-step recovery Step Recovery to Last Known Safe State- Dual System Design with Automatic Failback Reliability- Network Keep Alive- Network Failover and Failback Serial Interface Baud Rate- 300 bps to 921.6 kbps Data bits- 7, 8 Stop bits- 1, 2 Parity- None, Even, Odd, Space, Mark Flow control- RTS/CTS, XON/XOFF- ADDC (automatic data direction control) for RS-485- RTS toggle (RS-232 only) Console connection- 1 x 4-pin header to DB9 console connection Serial signals RS-232- Tx, Rx, RTS, CTS, DTR, DSR, DCD, GND RS-422- Tx+, Tx-, Rx+, Rx-, GND RS-485- 2w- Data+, Data-, GND CAN interface No. Ports- 1 Connector- DB9 Connector Baud rate- 10 to 1000 kbps Industrial protocols- CAN 2.0A- CAN 2.0B Isolation- 2 kV (built-in) Signals- CAN_H, CAN_L, CAN_GND, CAN_SHLD, CAN_V+, GND Digital inputs Connector- Screwable Euroblock terminal Dry contact- Off: Open- On: Short circuit to GND Isolation- 3kV VDC Sensor type- Wet contact (NPN)- Dry contact Wet contact (DI to COM)- On: 10 to 30 VDC- Off: 0 to 3 VDC Digital outputs Connection- Screwable Euroblock terminal Rated current- 200 mA per channel I/O type- Sink Voltage- 24 VDC nominal, open collector up to 30 VDC Mobile radio interface Mobile radio standards- LTE Cat. 4 Band options- LTE Band 1 (2100 MHz) / LTE Band 3 (1800 MHz) / LTE Band 5 (850 MHz) / LTE Band 7 (2600 MHz) / LTE Band 8 (900 MHz) / LTE Band 28 (700 MHz)- UMTS/HSPA 850 MHz / 900 MHz / 1900 MHz / 2100 MHz GPS interface Receiver types- GPS/GLONASS/Galileo- State-of-the-art GNSS solution Accuracy- Position: 2.0 m @ CEP 50 Acquisition- Hot start: 1.1 sec.- Cold start: 29.94 sec. Cold starts: 29.94 sec. Sensitivity- Cold starts: -145 dBm- Tracking: -160 dBm Time Pulse- 0.25 Hz to 10 MHz LED indicators System- Power x 2- Programmable x 1- SIM card indicator x 1 Wireless Signal Strength- Cellular/Wi-Fi x 6 Power Parameters No. Power Inputs- Redundant Dual Inputs Input Voltage- 12 to 48 VDC Power Consumption- 10 W Input Current- 0.8 A @ 12 VDC Reliability Alarm Tools- External RTC (Real Time Clock) Automatic Reboot Trigger- External WDT (Watchdog Timer) Physical Characteristics Dimensions- 141.5 x 120 x 39 mm (5.7 x 4.72 x 1.54 in) Weight- 750 g (1.65 lb) Housing- SECC- Metal Protection class- IP30 Installation- DIN rail mounting- Wall mounting (with optional kit) Environmental conditions Operating temperature- -40 to 70°C (-40 to 158°F) Storage temperature (including packaging)- -40 to 85°C (-40 to 185°F) Relative ambient humidity- 5 to 95% (non-condensing) Shock- IEC 60068-2-27 Vibration- 2 Grms @ IEC 60068-2-64, Random wave, 5-500 Hz, 1 hour per axis (without USB devices connected) Standards and certifications EMC- EN 55032/35- EN 61000-6-2/-6-4 EMI- CISPR 32, FCC Part 15B Class A EMS- IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV- IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m- IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV- IEC 61000-4-6 CS: 10 V- IEC 61000-4-8 PFMF- IEC 61000-4-5 Surge: Power: 0.5 kV; Signal: 1 kV Industrial Cybersecurity- IEC 62443-4-1- IEC 62443-4-2 Hazardous Zones- Class I Division 2- ATEX- IECEx Network Operator Approvals- Verizon- AT&T Safety- UL 62368-1- EN 62368-1 Environmentally friendly product- RoHS, CRoHS, WEEE MTBF Time- 528.574 hours Standards- Telcordia (Bellcore) Standard TR/SR

Specifications

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All details, up-to-date
prices and availability

