

Item no.: 385634

UC-8220-T-LX (CTO) - Arm Cortex-A7 dual-core 1 GHz IIoT gateway with built-in TPM module

from **802,84 EUR**

Item no.: 385634
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 and come with a 10-year support for Moxa Industrial Linux. This makes them the ideal choice for remote monitoring and data acquisition applications. For more information, visit our Arm Linux IIoT Gateway Solutions website.

Arm Cortex-A7 dual-core 1 GHz IIoT gateway with 2 expansion slots for a Wi-Fi and LTE module, 1 CAN port, 4 DIs, 4 DOs, -40 to 85°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 connections:** 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 inputs:** 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 2 - **SIM format:** Nano - **Number of SIMs:** 2 - **Buttons:** Programmable buttons - **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 - Hard Drive Protection:** LUKS Hard Disk Encryption - **Recovery One-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 AD/DC (automatic data direction control) for RS-485 RTS Toggle (RS-232 only) - Console connection:** 1 x 4-pin male connector to DB9 console connector **Serial signals- RS-232:** Tx+, Tx-, Rx+, Rx-, GND - **RS-422:** Tx+, Tx-, Rx+, Rx-, GND - **RS-485-2w:** Data+, Data-, GND **CAN interface- Number of ports:** 1 - **Connector:** DB9 connector - **Baud rate:** 10 to 1000 kbps - **Industrial protocols CAN 2.0:** CAN 2.0B - **Insulation:** 2 kV (built-in) - **Signals:** CAN_H, CAN_L, CAN_GND, CAN_SHLD, CAN_V+, GND **Digital inputs- Plug:** Screwable Euroblock terminal - **Dry contact Off: Open On: Short circuit to GND - Insulation:** 3K 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 **GPS interface- Receiver types:** GPS/GLONASS/Galileo **State-of-the-art GNSS solution - Accuracy:** Position: 2.0 m @ CEP50 - **Acquisition Hot starts:** 1.1 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- Number of 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 - **IP rating:** 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) - **Ambient Relative Humidity:** 5 to 95% (non-condensing) - **Shock:** IEC 60068-2-27 - **Vibration:** 2 Grms @ IEC 60068-2-64, random wave, 5-500 Hz, 1 hr. 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 **PFM IEC 61000-4-5 Surge:** Power: 0.5 kV; Signal: 1 kV - **Industrial cyber security IEC 62443-4-1 IEC 62443-4-2 - Hazardous areas:** Class I Division 2, ATEX, IECEx - **Network operator approvals:** Verizon, AT&T - **Safety UL 62368-1 EN 62368-1 - Environmentally friendly product:** RoHS, CrRoHS, WEEE **MTBF- Time:** 650,836 hours - **Standards:** Telcordia (Bellcore) standard TR/SR

Specifications

Scan this QR code to
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All details, up-to-date
prices and availability

