

Item no.: 385636

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

from **1.089,01 EUR**

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shipping weight: 0.80 kg
Manufacturer: MOXA



Product Description

Computer- CPU: Armv7 Cortex-A7 dual-core 1 GHz - DRAM: 2 GB DDR3L - Supported OS Moxa Industrial Linux 1 (Debian 9, kernel 4.4), 2027 EOLMoxa Industrial Linux 3 (Debian 11, kernel 5.10), 2031 EOL- Storage 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 male) - CAN Ports: CAN 2.0 A/B x 1 (DB9 male) - Digital Input: DI 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 ToolSecurity Event AuditingSecure Update - Disk Protection: LUKS Disk Encryption - Recovery One-step recovery to the last known secure stateDual-system design with automatic fallback - Reliability Network Keep AliveNetwork Failover and Failback Serial Interface- Baudrate: 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/XOFFADDC (automatic data direction control) for RS-485RTS Toggle (RS-232 only) - Console Port: 1 x 4-pin header to DB9 console portSerial 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. of Ports: 1 - Connector: DB9 male - Baudrate: 10 to 1000 kbps - Industrial Protocols CAN 2.0ACAN 2.0B - Isolation: 2 kV (built-in) - Signals: CAN_H, CAN_L, CAN_GND, CAN_SHLD, CAN_V+, GND Digital Inputs- Connector: Screw-fastened Euroblock terminal - Dry Contact Off: openOn: short to GND - Isolation: 3K VDC - Sensor Type Wet contact (NPN)Dry contact - Wet Contact (DI to COM) On: 10 to 30 VDCOff: 0 to 3 VDC Digital Outputs- Connector: Screw-fastened Euroblock terminal - Current Rating: 200 mA per channel - I/O Type: Sink - Voltage: 24 VDC nominal, open collector to 30 VDC Cellular Interface- Cellular 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 @CEP50 - Acquisition Hot starts: 1.1 secCold starts: 29.94 sec - Sensitivity Cold starts: -145 dBmTracking: -160 dBm - Time Pulse: 0.25 Hz to 10 MHz LED Indicators- System Power x 2Programmable x 1SIM card indicator x 1 - Wireless Signal Strength: Cellular/Wi-Fi x 6 Power Parameters- No. of Power Inputs: Redundant dual inputs - Input Voltage: 12 to 48 VDC - Power Consumption: 10 W - Input Current: 0.8 A @ 12 VDC Reliability- Alert 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 mountingWall mounting (with optional kit) Environmental Limits- Operating Temperature: -40 to 70°C (-40 to 158°F) - Storage Temperature (package included): -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 attached)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 kVIEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/mIEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kVIEC 61000-4-6 CS: 10 VIEC 61000-4-8 PFMFIEC 61000-4-5 Surge: Power: 0.5 kV; Signal: 1 kV - Industrial Cybersecurity: IEC 62443-4-, IEC 62443-4-2 - Hazardous Locations: Class I Division 2, ATEX, IECEx - Carrier Approvals: Verizon, AT&T - Safety: UL 62368-1, EN 62368-1 - Green Product: RoHS, CRoHS, WEEE MTBF- Time: 528,574 hrs - Standards: Telcordia (Bellcore) Standard TR/SR

Specifications

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prices and availability

