Item no.: 385587

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

from **1.125,60 EUR**

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shipping weight: 0.80 kg
Manufacturer: MOXA

📄 Product Description

Arm-based computersMoxa's compact fanless arm-based industrial computers 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 support for Moxa Industrial Linux, making them the ideal choice for remote monitoring and data acquisition applications.For more information, visit our website for Arm Linux IIoT gateway solutions.Arm Cortex-A7 dual-core 1 GHz IIoT gateway with built-in TPM module, EU region 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 temperatureComputer- CPU: Armv7 Cortex-A7 Dual-Core, 1 GHz- DRAM: 2 GB DDR3L- Supported operating system:Moxa Industrial Linux 1 (Debian 9, Kernel 4.4), EOL 2027- Moxa Industrial Linux 3 (Debian 11, Kernel 5.10), EOL 2031- Further information- Memory: 8 GB eMMC (pre-installed)- Expansion slots: MicroSD (SD 3.0) socket x 1Interfaces- Ethernet ports: 2 x 10/100/1000 Mbps (RJ45 connector)- Serial ports: 2 x RS-232/422/485, software selectable (DB9 connector)- CAN ports: 1 x CAN 2.0 A/B (DB9 connector)- Digital inputs (DIs): 4- Digital outputs (DOs): 4- USB: 1 x USB 2.0 Host (Type-A)- Antenna connections:Wi-Fi: RP-SMA x 2- Mobile radio: SMA x 2- GPS: SMA x 1- Expansion slot: mPCIe slot x 1- SIM format: Nano (2 slots)- Keys: Programmable keys- TPM: TPM v2.0, Ethernet Interface- Magnetic Isolation Protection: 1.5 kV (built-in) Security Functions- Hardware-based Security TPM 2.0Hardware Root of Trust Secure Boot - Intrusion Detection: Host-based- Security Tools:Security Diagnostic ToolSecurity Event AuditingSecure Update- Disk Protection: LUKS Disk Encryption- Recovery: One-step recovery to last known safe state; dual system design with auto-failback-Reliability: Network Keep AliveFailover and FailbackSerial 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/XOFFADDC: Automatic data direction control for RS-485- Console connection: 1 x 4-pin connector on DB9CAN interface- Connections: 1 DB9 connector- Baud rate: 10 to 1000 kbps- Protocols: CAN 2.0A, CAN 2.0B- Isolation: 2 kV (built-in)Digital inputs & outputs- Digital inputs:Connector: Screwable Euroblock terminal- Sensor type: Wet contact (NPN), dry contact- Wet contact (DI to COM):On: 10 to 30 VDC- Off: 0 to 3 VDC- Isolation: 3K 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 VDCWireless interfaces- Cellular standards: LTE Cat. 4- Bands: LTE: Band 1 (2100 MHz), Band 3 (1800 MHz), Band 5 (850 MHz), Band 7 (2600 MHz), Band 8 (900 MHz), Band 20 (800 MHz)UMTS/HSPA: 850 MHz, 900 MHz, 1900 MHz, 2100 MHzGPS interface- Receiver types: GPS/GLONASS/Galileo- Accuracy: Position: 2.0 m @ CEP50- Acquisition: Hot start: 1.1 sec, Cold start: 29.94 sec- Sensitivity: Cold start: -145 dBm, Tracking: -160 dBmIndicators & power supply- LED indicators:System: Power x 2, Programmable x 1, SIM card indicator x 1- Wireless signal strength: Cellular/Wi-Fi x 6- Power inputs: Two redundant- Input voltage: 12 to 48 VDC- Power consumption: 10 W- Input current: 0.8 A @ 12 VDCReliability features - RTC: External real-time clock- Watchdog timer: External WDT, automatic restart triggerPhysical features- 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- Mounting: DIN rail mounting, wall mounting (optional kit)Environmental conditions- Operating temperature: -40 to 70°C (-40 to 158°F)- Storage temperature: -40 to 85°C (-40 to 185°F)- Humidity: 5 to 95% (non-condensing)- Shock: IEC 60068-2-27- Vibration: 2 Grms @ IEC 60068-2-64Certifications- EMC: EN 55032/35, EN 61000-6-2/-6-4- EMI: CISPR 32, FCC Part 15B Class A- EMS: Various IEC Standards- Industrial Cybersecurity: IEC 62443-4-1, IEC 62443-4-2- Hazardous Locations: Class I Division 2, ATEX, IECEx- Carrier approvals: Verizon, AT&T- Safety: UL 62368-1, EN 62368-1- Compliance with environmentally friendly products: RoHS, CRoHS, WEEE- MTBF: 528,574 hours (Telcordia Standard TR/SR)

📄 Specifications

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