

Item no.: 385631

UC-8210-T-LX-S - Arm Cortex-A7 dual-core 1 GHz IIoT gateway with built-in TPM module, 1 CAN port,

from **671,52 EUR**

Item no.: 385631
shipping weight: 0.90 kg
Manufacturer: MOXA



Product Description

Moxa's Arm-based compact fanless industrial-grade computers are wireless-ready and come with comprehensive security features. They are built for space-critical applications. The computers are specifically designed for long-term operations, making them an ideal choice for remote monitoring and data-acquisition applications.

Arm Cortex-A7 dual-core 1 GHz IIoT gateway with built-in TPM module, 1 CAN port, 4 DI, 4 DO, -40 to 85°C operating temperature

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 EOL- Moxa 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- DO x 4
USB 2.0- USB 2.0 hosts x 1, type-A connectors
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 to the last known secure state- Dual-system design with automatic fallback
Reliability- Network Keep Alive- Network 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/XOFF- ADDC (automatic data direction control) for RS-485- RTS Toggle (RS-232 only)
Console Port- 1 x 4-pin header to DB9 console port
Serial Signals
RS-232- Tx, Rx, D, 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 2.0A- CAN 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: open- On: short to GND
Isolation- 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
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
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
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
Housing- SECC- Metall
IP Rating- IP30
Installation- DIN-rail mounting- Wall 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 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 Locations- Class I Division 2- ATEX- IECEx
Carrier Approvals- Verizon- AT&T
Safety- UL 62368-1- EN 62368-1
Green Product- RoHS, CrRoHS, WEEE
MTBF
Time- 708,581 hrs
Standards- Telcordia (Bellcore) Standard TR/SR

Specifications

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

