

Item no.: 385633

## UC-8220-T-LX - Arm Cortex-A7 dual-core 1 GHz IIoT gateway with 2 expansion slots

from **800,26 EUR**

Item no.: 385633  
 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, making them an ideal choice for remote monitoring and data acquisition applications.

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 OS Moxa Industrial Linux 1 (Debian 9, kernel 4.4), 2027 EOL Moxa Industrial Linux 3 (Debian 11, kernel 5.10), 2031 EOL See www.moxa.com/MIL- 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 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 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 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+

GNDDigital Inputs- Connector Screw-fastened Euroblock terminal- Dry Contact Off: open On: short 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- 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- 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 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- EMCEN 55032/35EN 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 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 650,836 hrs- Standards Telcordia (Bellcore) Standard TR/SR

### Specifications

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

