

Item no.: 386122

UC-8580-4GCAT6-NAMEU - LTE Cat. 6 module for North America and Europe, 2 SMA connections with cables, -4

from **507,53 EUR**

Item no.: 386122
shipping weight: 2.20 kg
Manufacturer: MOXA



Product Description

Moxa LTE Cat. 6 module for North America and Europe, 2 SMA connectors with cable

Description The UC-8580 from Moxa is an innovative computer platform that has been specially developed for transport applications. The UC-8580 is available with one of two different antenna connectors. The SMA model supports all SMA connectors. The QMA model supports TNC connectors for GPS and QMA connectors for WiFi/Cellular modules and has four slots for the installation of wireless modules*. Three slots support 3G/LTE modules and one slot supports a Wi-Fi module. Each 3G/LTE module has two SIM card slots that can be used for redundant communication with the cellular network or SIM card selection with geo-fencing by using the integrated Wireless Manager, a Moxa software program for cellular and Wi-Fi module management. The UC-8580 uses an open platform based on Debian 8 with Linux Kernel 4.1, which allows solution providers to manage software packages via Debian's APT (Advanced Packaging Tools) or develop software applications using Moxa's API Library and GNU C Library. The UC-8580's single-sided I/O design is ideal for vehicle applications that typically do not have much space for the installation of communication devices. The UC-8580 also features a front access panel that allows the user to install or change wireless modules, SIM cards or mSATA cards without removing the entire device from the wall after mounting. The UC-8580 can be used as a communication-centred computing platform for the following applications:- Vehicle-to-ground communication gateway- TCMS T2G (train-to-ground) gateway- Mobile condition monitoring unit- Ethernet Consist Network T2G gateway- Onboard Wireless Automated Fare Collection Unit

Features- Meets all mandatory test points of EN 50155* - EN 50155 Tx (-40 to 70°C) operating temperature for harsh environments- Supports up to 3 WWAN connections and 2 SIM card slots per cellular module- Supports 1 WLAN (IEEE 802.11b/g/n/ac)- Single-sided I/O design for reduced footprint and easier maintenance- Front access panel for easy maintenance- Isolated 24 to 110 VDC power input with current ignition function, suitable for vehicle applications

Computer- CPU Armv7 Cortex-A7 dual-core 1 GHz System Memory Pre-installed 1 GB DDR3L- Supported OS Linux Debian 8 (Linux kernel v4.1) 3 www.moxa.com- Storage Slot mSATA slots x 1, internal mini-PCIe socket Storage Pre-installed 4 GB eMMC

Computer Interface- Ethernet Ports Auto-sensing 10/100/1000 Mbps ports (M12 X-coded) x 2- Serial Ports RS-232/422/485 ports x 2, software-selectable (terminal block)- USB 3.0 USB 3.0 hosts x 1, type-A connectors- Digital Input DIs x 3- Digital Output DOs x 3- Expansion Slots mPCIe slot x 4- Wi-Fi Antenna Connector UC-8580-LX/8580-T-LX/8580-T-CT-LX: RP-SMA x 3 UC-8580-Q-LX/8580-T-Q-LX/8580-T-CT-Q-LX: QMA x 3- Cellular Antenna Connector UC-8580-LX/8580-T-LX/8580-T-CT-LX: SMA x 6 UC-8580-Q-LX/8580-T-Q-LX/8580-T-CT-Q-LX: QMA x 6- Number of SIMs 6- SIM Format Mini- GPS Antenna Connector UC-8580-LX/8580-T-LX/8580-T-CT-LX: SMA x 1 UC-8580-Q-LX/8580-T-Q-LX/8580-T-CT-Q-LX: TNC x 1- Console Port RS-232 (Tx, Rx, GND), 4-pin header output (115200, n, 8, 1)

Input/Output Interface- Buttons Reset button

Digital Inputs- Channel-to-Channel Isolation 3K VDC- Connector Screw-fastened Euroblock terminal- Counter Frequency 25 Hz- Dry Contact On: short to GND Off: open- I/O Mode DI- Points per COM 3 x channel- Sensor Type Wet Contact (NPN or PNP)- 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 0 to 30 VDC

LED Indicators- System Power x 1 System Ready x 1 Programmable x 1- Wireless Signal Strength Cellular/Wi-Fi x 12- LAN 2 per port (10/100/1000 Mbps)- Serial 2 per port (Tx, Rx) Serial Signals- RS-232 Tx, Rx, RTS, CTS, DTR, DSR, DCD, GND- RS-422 Tx+, Tx-, Rx+, Rx-, GND- RS-485-2w Data+, Data-, GND- RS-485-4w Tx+, Tx-, Rx+, Rx-, GND

GPS Interface- Heading Accuracy 0.3 degrees- Industrial Protocols NMEA 0183, version 4.0 (V2.3 or V4.1 configurable), UBX, RTCM- Receiver Types 72-channel u-blox M8 engine- Time Pulse 0.25 Hz to 10 MHz- Velocity Accuracy 0.05 ms

Power Parameters- Input Current 1.66 A @ 24 VDC, 0.36 A @ 110 VDC- Input Voltage 24 to 110 VDC- Power Connector M12 A-coded 4-pin male connector- Power Consumption 40 W (max.)

Physical Characteristics- Housing Metal- IP Rating IP40- Dimensions (with ears) 270 x 134 x 88 mm (10.63 x 5.28 x 3.46 in)- Dimensions (without ears) 220 x 134 x 88 mm (8.66 x 5.28 x 3.46 in)- Weight Product only: 2,200 g (4.85 lb)- Installation Wall mounting- Protection -CT models: PCB conformal coating- Environmental Limits- Operating Temperature Standard Models: -25 to 55°C (-13 to 131°F)- Wide Temp. Models: -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)

Standards and Certifications- EMC EN 55032/24- EMI CISPR 32, FCC Part 15B Class A- EMS IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF- Railway EN 50121-4, EN 50155- Railway Fire Protection EN 45545-2- Safety EN 60950-1, UL 60950-1- Shock IEC 60068-2-27, IEC 61373, EN 50155- Vibration IEC 60068-2-64, IEC 61373, EN 50155

Declaration- Green Product RoHS, CRoHS, WEEE

Specifications

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prices and availability



