



Connect . Analyze . Transform

Highly versatile, reliable compact and rugged edge computing LTE Modem

Niseva Technologies aims to significantly simplify and accelerate complex IOT deployments by bridging heterogenous systems with various different hardware interfaces and software protocols into one single standard based platform. XE-20 Modem series is a highly ruggedized and at the same time versatile, Intelligent and secure 4G Cellular edge computing device.

With most essential hardware interfaces available naively on the device, and support of Industrial protocols like Modbus, DLMS, the device is a particularly suitable for Automation / Metering applications. From seamless Sensor integration to PLC/RTU/Meter integration coupled with Niseva XNET platform ensures easy device setup, configuration, Device Management as well as Data Management.

Device Specifications

Hardware Interfaces for XE-20

- 1 X Full RS232 via DB9
- 1 X RS485 half duplex
- 1 X USB 2.0 up to 480Mbps
- 1 X SIM 1.8V/3.0V
- 2 X Digital Inputs (up to VCC)

Optional interfaces for XE-20

GNSS – GPS, Glonass, Galileo

Cellular

- LTE FDD: B1/B3/B5/B8/B20
- LTE TDD: B38/B40/B41
- WCDMA: B1/B5/B8
- GSM: B3/B8

Data Rates

- LTE CAT 4:
- LTE FDD: 150Mbps (DL)/ 50Mbps (UL)
- LTE TDD: 130Mbps (DL)/ 30Mbps (UL)

UMTS:

- DC-HSDPA: 42Mbps (DL)
- HSUPA: 5.76Mbps (UL)
- WCDMA: 384Kbps (DL)/384Kbps (UL)

GSM:

- EDGE: 296Kbps (DL)/236.8Kbps (UL)
- GPRS: 107Kbps (DL)/85.6Kbps (UL)

Dimensions: Ultra compact form factor - 65mm75mm*25mm

Power Supply

- 8-32 VDC
- Last Gasp – Power loss detection via Li-Ion battery (Only in AC powered version)

Power Consumption at 12V DC

- Sleep Mode: 3mA
- Idle Mode: 22mA
- LTE CAT4: 330mA

Operating Temperature

-30 to 85 degree Celsius

- External Hardware Watchdog
- Cellular Network Watchdog

Operation Protocols

PPP, QMI, CMUX, SSL

Plug and Play Software

- AT Command support
- Auto TCP - Server and Client Mode

LED Indicators

- Power LED
- Device Status
- Net Mode for device Network Registration
- Net status – Device Data connection

XE-20 Series



Ultra Compact Form Factor	Wide LTE Coverage
Linux Operating System	Industrial Protocols

Industrial Protocol Support

- Modbus RTU
- IEEE 62056-21 DLMS
- IEC 60870-5-101
- IEC 60870-5-104

IOT Cloud Connectors

- MQTT – MQTTS
- FTP – FTPS
- HTTP – HTTPS
- TCP, UDP, NTP, ICMP, SMTPS

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XNET is an integrated Device Management and Data Management Platform aimed at managing mass deployments as well as providing data visualization, analytics, alerts, reports and 3rd party system integration.