XNET — 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.

Meter Reading

Transmission and Distribution Systems

Industrial Automation

Device Specifications

Hardware Interfaces for XE-20
1 X Full RS232 via RJ45
1 X USB 2.0 up to 480Mbps
1 X SIM 1.8V/3.0V
1 X e-Sim
2 X Digital Inputs (up to VCC)

Optional interfaces for XE-20
GNSS – GPS. Glonass, Galileo

Cellular
LTE FDD: B1/B3/B5/B7/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 - 55mm*45mm*20mm

Power Supply
8-32 VDC
Power supply from RJ 45 as well as separate power input
Last Gasp – Power loss detection via Super Capacitors

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

Ultra Compact Form Factor

Wide LTE Coverage

Last Gasp

Industrial Protocols

Industrial Protocol Support
Modbus RTU
IEEE 62056-21 DLMS

IOT Cloud Connectors

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

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niseva

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.