



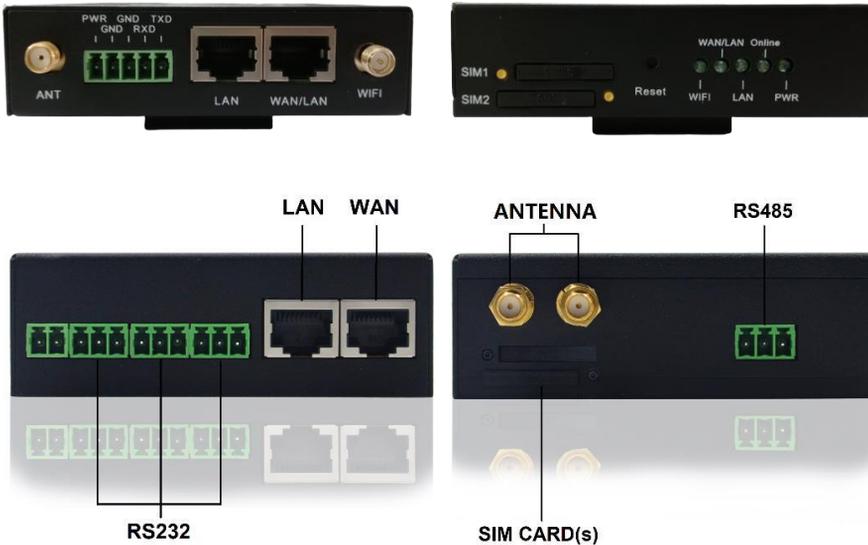
XE-33 Series

Connect . Analyze . Transform

Dual WAN, Dual SIM high speed, rugged edge computing LTE Router

With Dual WAN Data connectivity comprising of one Ethernet WAN and Dual SIM LTE Cat 4 WANs, Niseva Technologies XNET EDGE XE-33#2S Series aims to take connectivity speed and reliability to the next level.

Packed with a powerful CPU, aided by intelligent programmable Linux based embedded software, host of Industrial protocols natively supported, and seamless integration with DNET, the XE-33 series is a perfect choice for Enterprise, Industrial and IOT deployments.



Speed and Redundancy



Security



Industrial Protocol Support



IOT Cloud Connectors

```

1 model = Sketchup.active_model
2 selection = model.selection
3 edges = selection.grep(Sketchup::Edge)
4 outerEdges = []
5
6 edges.each do |edge|
7   faces = edge.faces
8   outerEdges << edge if faces.length <= 1
9 end #do
10
11 selection.clear
12 selection.add outerEdges
  
```

Scripting

Hardware Options

	XE33#2S#485	XE33#2S#232	XE33#2S#ext
RS 232	✗	✓	3
RS485	✓	✗	1
LAN	✓	✓	✓
WAN	✓	✓	✓
LTE CAT 4	✓	✓	✓
Dual SIM	✓	✓	✓



Advance Routing VPN

Industrial Protocol Support

- Modbus RTU Master
- Modbus TCP Master
- IEC 60870-5-101 Master / Slave
- IEC 60870-5-104 Master / Slave
- IEEE 62056-21 DLMS
- DNP3 Slave

IOT Cloud Connectors

- MQTT – MQTTS
- FTP – FTPS
- HTTP – HTTPS
- TCP

Coming Soon : Azure, AWS, Cumulocity

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.

Device Specifications

Hardware Interfaces for XE-33#2S

1 X Ethernet LAN Ports with 15KV ESD protection
1 X Ethernet WAN Port switchable to LAN with 15 KV ESD protection
1 X RS232 or RS485 with 15KV ESD protection (3 RS232 and 1 RS485 for XE33#2S#ext)
1 X CAT 4 LTE Cellular
2 X Mini SIM
802.11 b/g/n 2.4Ghz Wi-Fi – Hotspot and Client Mode

Hardware Details

CPU- 580MHz Qualcomm CPU
Flash – 16MB
RAM – 128MB

Cellular

LTE FDD: B1/B3/B5/B8
LTE TDD: B34/B38/B39/B40/B41
TD-SCDMA: B34/B39
WCDMA: B1/B8
GSM: 900/1800MHz

Cellular Data Rates

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

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

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

LED

Power / Boot LED
Signal Strength
Device Network Registration
Cellular Data Activity
LAN / WAN Data activity

Power

6-36 VDC with phase reversal protection
Max Power consumption: 4W

Operating Temperature

-35 to +75 degree Celsius
95% Relative Humidity non condensing

Routing Features

DHCP Server, DHCP Client, Static Routes, Traffic Routing, Port Forwarding, Dynamic DNS, NAT

Performance Redundancy

Triple redundancy with 1 x Fast ethernet WAN and 2 x Cat 4 LTE WAN
Simultaneous operation for all WANs and load balancing or failover between WANs
Data Connectivity Watchdog and Hardware Watchdog

Security and Tunnelling

IPSec with IKEV1, IKEV2, Selectable encryption schemes, Selectable Hash Algorithms and Dead Peer Detection
OpenVPN Client, Open VPN Pas through
OpenSSL
Zone Based Firewall
Stateful packet inspection and Sync Flood Protection
Sim Pin
Source / Destination IP address binding

Management

Web based local and remote configuration
SNMP V1, V2, V3
Integrated XNET support

Industrial Protocol support

Modbus Master
IEC 101 Master / Slave
IEC 104 Master / Slave
Modbus to IEC 104 Convertor
IEC 101 to IEC 104 Convertor
DNP3 Slave
OPC- UA (Planned)

Connectivity Protocols

TCP/UDP/FTP/HTTP/MQTT/NTP/ICMP/HTTPS*/SMTP*/FTPS*/SMTPS*

Dimensions

93mm X 89mm X 24mm without cables and Antennas
Weight – 250gms for XE22#2S
126mm X 89mm X30mm without cables and Anennas
Weight – 320gms for XE33#2S#ext

IP 30

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