XE-33 LTE LoRa Gateway

Dual Redundant, high speed, rugged edge computing LTE – LoRa Gateway

Dual redundant high speed LTE backhaul and Lora Gateway, Niseva Technologies XNET EDGE XE-33 Series aims to take connectivity speed and reliability to the next level.

Packed with a powerful dual core 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.
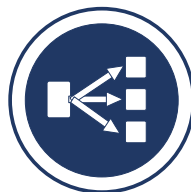
Speed and Redundancy

Security

Industrial Protocol Support

IOT Cloud Connectors

Scripting

Hardware Options

	XE-33#1C1L
RS 232	✓
USB 3.0	✓
LAN	✓
WAN	✓
PD-PoE	✓
RTC	✓
LoRa	✓
LTE CAT 4	✓

4G LTE + LoRa

Dual Simultaneous 4G LTE

Advance Routing and VPN

Industrial Protocol Support
Modbus RTU
Modbus TCP
IEC 60870-5-101
IEC 60870-5-104
IEEE 62056-21 DLMS

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#1C
2 X 1Gbps Ethernet LAN Ports
1 X 1Gbps Ethernet WAN Port
1 X Full RS232
1 X USB 3.0 type A for console access
1 X CAT 4 LTE Cellular
1 X Mini SIM
PD PoE over WAN interface
LoRa WAN 856Mhz-867Mhz, Class A / Class C

Hardware Details
CPU- 880MHz Dual Core
Flash – 16MB, SD Card
RAM – 256MB

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

LoRa
856Mhz-867Mhz, Class A / Class C
RF Power Output: 20W
Receive max sensitivity -137 dB @ SF12

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
11-28 VDC
 Max Power consumption:
XE33#1C – 6W& XE33#2C – 9W

Operating Temperature
-40 to +70 degree Celsius

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
IEC 104 Master
Modbus to IEC 104 Convertor
IEC 101 to IEC 104 Convertor
OPC- UA (Planned)
Bacnet (Planned)

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

Programming Capabilities
Linux Operating System
Development APIs
Python Scripting
Shell Scripting

For more details, Contact Niseva Technologies Pvt. Ltd.
sales@niseva.com
www.niseva.com
91 9820168224

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