

Connect . Analyze . Transform

Triple Redundant, high speed, rugged edge computing LTE RTU

Control and Monitor your assets on a real time basis with XE33#XIO series, with a host of local connectivity interfaces viz Ethernet, Serial, USB, Digital Inputs, Digital Outputs and Analog Inputs.

With triple redundant Data connectivity comprising of one Fast Ethernet WAN and Dual LTE Cat 4 WANs, 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.





Interface Capabilities:

12 Optically isolated Digital Inputs : 6 Digital Outputs : 4 Analog Inputs : 1 RS232 with Modbus, DLMS, IEC101, DNP3 support : 2 Fast Ethernet LAN ports with Modbus, DLMS, IEC 104, DNP3 support : 865-867 MHz RF for short range connectivity

Hardware Options

	Variants	
	XE-33 XIO#1C	XE-33XIO#2C
RS 232	\checkmark	\checkmark
USB 3.0	\checkmark	\checkmark
LAN	\checkmark	\checkmark
WAN	\checkmark	\checkmark
PD-PoE	\checkmark	\checkmark
RTC	\checkmark	\checkmark
GNSS	×	\checkmark
LTE CAT 4	\checkmark	$\checkmark\checkmark$

Applications

•	Distribution	
	Transformer	
	Monitoring	

- Fault Detection
- Load Break Switches monitoring and Control
- RMU Monitoring and Control
- Value and Pump Monitoring and Control
- Industrial Automation



Industrial Protocol Support



model = Sketchup.active_model selection = model.selection edges = selection.grep(Sketchup::Edge) outerEdges = [] edges.eaScripting faces = edge.faces outerEdges << edge if faces.length <= 1 end #do selection.clear selection.add outerEdges

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 DLMS Master

IOT Cloud Connectors

MQTT – MQTTS FTP – FTPS HTTP – HTTPS TCP





Advance Routing and VPN

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-33XIO#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
12 Isolated Digital Inputs – 0 – VCC
6 Digital Outputs – 200mA Open Collector
4 Analog Inputs – 4-20mA or RTD
865 - 867Mhz RF Optional

Additional interfaces for XE-33XIO#2C

1 X CAT 4 LTE Cellular 1 X Mini SIM GNSS

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

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 Digital Inputs and Outputs

Power

11-28 VDC Max Power consumption: XE33XIO#1C – 6W& XE33XIO#2C – 9W

Operating Temperature

-30 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 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

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 DLMS Master

Connectivity Protocols

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

Programming Capabilities

Linux Operating System Development APIs

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