



Connect . Analyze . Transform

## XE-33 XIO Series

### High speed, rugged edge computing LTE RTU with Digital I/Os and IEC 104

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.

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.



#### Interface Capabilities:

5 Optically isolated Digital Inputs : 5 Digital Outputs : 1 RS232 and 1 RS485 port with Modbus, DLMS, IEC101, DNP3 support : 1 USB port for Configuration using RNDNS, SD card slot for extended Data storage

#### 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

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



High Speed 4G LTE



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 3<sup>rd</sup> party system integration.

# Device Specifications

## Hardware Interfaces for XE33-XIO-LITE

1 X USB 2.0 type C for console access  
1 X RS232 (5 Pin – Tx, Rx, GND, CTS, RTS)  
1 X RS485 half Duplex  
1 X CAT 4 LTE Cellular  
2 X Micro SIM  
5 Isolated Digital Inputs – 0 to VCC  
5 Digital Outputs – 200mA Open Collector

## Hardware Details

CPU- 1.2 Ghz  
Flash – 100 MB, SD Card  
RAM – 100 MB

## Cellular

LTE FDD: B1/B3/B7/B8/B20/B28  
LTE TDD: B38/B40/B41  
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  
Digital Inputs and Outputs

## Dimensions

90mm x 75mm x 50mm  
Weight – 400 gms  
ABS Base and Polycarbonate Top  
Din rail mount

## Power

240V AC with 2000 or 4000 mAh Battery  
Max Power consumption: 4W  
Avg Power Consumption: 2W

## Operating Temperature

-30 to +70 degree Celsius

## Routing Features

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

## Performance Redundancy

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\*/FT  
PS\*/SMTPS\*

## Programming Capabilities

Linux Operating System  
Development APIs

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