



Connect . Analyze . Transform

Product Portfolio

About us

XNET Brand was created at Niseva Technologies Pvt Limited in Oct 2020 by 3 Entrepreneurs - Shripad Nawalkar, Hitesh Shukla and Aashish Kulkarni, possessing an experience in the field of M2M and IOT with the sole objective to *Simplify IOT deployments* by bridging Complex (and Legacy) Industrial systems, communication technologies with new age IOT standards.

M2M / IOT is all about integrating various heterogeneous systems, often complicated and involving several stake holders. Niseva Technologies is committed to simplify user experience by providing intelligent Edge Computing gateways along with a highly scalable, secure & customizable cloud system along with optimized secure communication methodology. Niseva aims to be the most trusted brand in the field of M2M and IOT.

Niseva XNET is focussed primarily on Energy, Water, Gas, Industrial Automation, Building Automation and Environment verticals, striving to simplify communication challenges by integrating various Industrial protocols such as Modbus, DLMS, IEC 101/104, DNP3 as well as new age IOT data communication protocols like MQTT, COAP, LW M2M coupled with strong security authentication and encryption methodologies on the edge devices thus enabling faster, easier and secure communication.



Energy

- Metering
- Energy Audit
- Feeder Automation, Distribution Management System and SCADA
- Solar Cell Monitoring and control
- Wind Turbine monitoring
- UPS and Battery Monitoring
- Street Light Automation

Water and Gas

- Water / Gas Metering
- Automation of pumping stations

Environmental Monitoring

Industrial Automation

Building Management – Water, Electricity and Gas Meter Reading

Router Series

XE33-2C



- Dual SIM, Dual Cellular high speed CAT4 LTE Router with Active – Active Redundancy
- 2 LAN, 1 WAN, 1 RS232 Port
- Industrial Protocol Support – Modbus, IEC101/104, DNP3, DLMS
- Cloud Connectors – MQTT, HTTP, FTP
- Linux based, VPN Support, TLS

XE33-2S

- Dual SIM, Single Cellular high speed CAT4 LTE Router
- 1 LAN, 1 LAN/WAN, 1 RS232 or 1 RS485 Port
- Industrial Protocol Support – Modbus, IEC101/104, DNP3, DLMS
- Cloud Connectors – MQTT, HTTP, FTP
- Linux based, VPN Support, TLS



XE33-1C-Lora



- Single SIM Single Cellular high speed CAT4 LTE Router
- 2 LAN, 1 WAN, 1 RS232 Port
- LoRa WAN for short radio communication
- Industrial Protocol Support – Modbus, IEC101/104, DNP3, DLMS
- Cloud Connectors – MQTT, HTTP, FTP
- Linux based, VPN Support, TLS

XE33-1C-XIO

- Single SIM Single Cellular high speed CAT4 LTE Router
- 2 LAN, 1 WAN Port, 1 RS232 port
- 12 Optically Isolated Digital Inputs
- 6 Digital Outputs
- 4 Analog Inputs – 4-20mA or 0-10V or RTD
- Industrial Protocol Support – Modbus, IEC101/104, DNP3 – Master/Slave, DLMS Master
- Cloud Connectors – MQTT, HTTP, FTP
- Linux based, VPN Support, TLS



Router Series

XE33-XIOLITE

- Dual SIM Single Cellular high speed CAT4 LTE Router
- 5 Digital Inputs, 5 Digital Outputs
- 1 RS232 and 1 RS485 Port
- Industrial Protocol Support – Modbus, IEC101/104, DNP3 – Master/Slave, DLMS Master
- Cloud Connectors – MQTT, HTTP, FTP
- Linux based, VPN Support, TLS



Router Comparison

Specifications	XE33-2C	XE33-1C-XIO	XE33-2S-232/485	XE33-XIOLITE	XE33-1C-LoRa
LAN Ports	2	2	2	0	2
WAN Ports	1	1	1	0	1
Total Ethernet Ports	3	3	2	0	3
4G LTE CAT 4	Yes	Yes	Yes	Yes	Yes
Cellular	2 X LTE CAT 4/3G/2G	1 X LTE CAT 4/3G/2G	1 X LTE CAT 4/3G/2G	1 X LTE CAT 4/3G/2G	1 X LTE CAT 4/3G/2G
4G Bands	B1/B3/B5/B7/B8/B20/B28/B38/B40/B41	B1/B3/B5/B7/B8/B20/B28/B38/B40/B41	B1/B3/B5/B7/B8/B20/B28/B38/B40/B41	B1/B3/B5/B7/B8/B20/B28/B38/B40/B41	B1/B3/B5/B7/B8/B20/B28/B38/B40/B41
3G Bands	B1/B5/B8	B1/B5/B8	B1/B5/B8	B1/B5/B8	B1/B5/B8
2G Bands	850/900/1800/1900	850/900/1800/1900	850/900/1800/1900	850/900/1800/1900	850/900/1800/1900
DownLink Speed	150Mbps	150Mbps	150Mbps	150Mbps	150Mbps
Uplink Speed	50Mbps	50Mbps	50Mbps	50Mbps	50Mbps
3G Fallback	Yes	Yes	Yes	Yes	Yes
2G Fallback	Yes	Yes	Yes	Yes	Yes
SIM Slots	2	1	2	2	1
Short Range RF	NA	NA	NA	NA	LoRa
GPS	Optional	Optional	Optional	Optional	Optional
Serial	RS232	RS232	RS232 OR RS485	RS485 + RS232	RS232
PoPoE	Yes	Yes	No	No	Yes
RTC	Yes	Yes	Yes	Yes	Yes
Temp	-20 to +70	-20 to +70	-20 to +70	-20 to +70	-20 to +70
Power	9V-28VDC	9V-28VDC	8V-36VDC	8V-36VDC	9V-28VDC
Internal Battery Back-up	No	No	No	Yes	No
IPSec VPN	Yes	Yes	Yes	Yes	Yes
Failover and Load Balancing	Yes	Yes	Yes	Yes	Yes
Active Active 4G Reduncancy	Yes	No	No	No	Yes
Digital Inputs	NA	12	NA	5	NA
Digital Outputs	NA	6	NA	5	NA
Analog Outputs 4-20mA/RTD/0-10V	NA	4	NA	0	NA
Wireless MBUS	NA	NA	NA	NA	NA
ST Water Meter Interface	NA	NA	NA	NA	NA
Modbus Master over Serial or Ethernet	Yes	Yes	Yes	Yes	Yes
MQTT, FTP, MQTTS, FTPS over LAN / WAN	Yes	Yes	Yes	Yes	Yes
DNP3 Master over Serial or Ethernet	Yes	Yes	Yes	Yes	Yes
DNP3 Master to IEC 104 (over LAN/WAN)	Yes	Yes	Yes	Yes	Yes
DNP3 Slave - Modbus to DNP3 (over LAN/WAN)	Yes	Yes	Yes	Yes	Yes
IEC 60870-5-104 Slave - Modbus to IEC 104 (over LAN/WAN)	Yes	Yes	Yes	Yes	Yes
Modbus RTU to TCP	Yes	Yes	Yes	Yes	Yes
IEEE 62056-21 DLMS - DLMS master to MQTT	Yes	Yes	Yes	Yes	Yes
Modbus Slave mapped to I/Os	No	Yes	No	Yes	No
IEC 104 Slave mapped to I/Os	No	Yes	No	Yes	No
Operating System	Linux - Open WRT	Linux - Open WRT	Linux - Open WRT	Linux - Open WRT	Linux - Open WRT
Configuration	Web - Based	Web - Based	Web - Based	Web - Based	Web - Based
Certifications					
CISPR 32 - Conducted Emissions	Yes	Yes	Yes	Yes	Yes
CISPR 32 - Radiated Emissions	Yes	Yes	Yes	Yes	Yes
IEC 61000 - 4 - 2	Yes	Yes	Yes	Yes	Yes
IEC 61000 - 4 - 4	Yes	Yes	Yes	Yes	Yes
IEC 61000 - 4 - 5	Yes	Yes	Yes	Yes	Yes
IEC 60068-2-1	Yes	Yes	No	Yes	Yes
IEC 60068-2-2	Yes	Yes	No	Yes	Yes
MTCTE	Yes	Yes	Yes	Yes	No

4G Multi Utility Terminals

XE20-485



- 4G Cat 1 Multi Utility Terminal
- 1 Isolated RS485 port
- Dual SIM
- Tamper Detection
- RTC Battery Back up
- Battery Back up - Optional
- Industrial Protocols - Modbus, DLMS
- Cloud Connectors - MQTT

XE20-485-IO

- 4G Cat 1 Multi Utility Terminal
- 1 Isolated RS485 port
- 2 Analog Inputs – 4-20mA
- 2 Digital Inputs – 0-VCC
- Dual SIM
- Tamper Detection
- RTC Battery Back up
- Battery Back up - Optional
- Industrial Protocols - Modbus, DLMS
- Cloud Connectors - MQTT



XE20-232 / XPS

- 4G Cat 1 Multi Utility Terminal
- 1 RS232 with VCC output
- Dual SIM
- Tamper Detection
- RTC Battery Back up
- DC Powered or AC Powered with in-built Battery and a Battery Charger
- Industrial Protocols - Modbus, DLMS
- Cloud Connectors – MQTT



NB Multi Utility Terminals

XE20-485-NB



- 4G Cat M1, NB, 2G Multi Utility Terminal
- RS485 with Auto detection
- SD Card
- Tamper Detection
- RTC Battery Back up
- DC Powered or AC Powered with in-built Battery and a Battery Charger
- RTOS Operating System
- Industrial Protocols - Modbus, DLMS
- Cloud Connectors - MQTT

XE20-485-WMBUS-NB

- 4G Cat M1, NB, 2G Multi Utility Terminal
- Wireless MBUS – Mode S,T,C
- 1 RS485 with Auto detection
- SD Card
- Tamper Detection
- RTC Battery Back up
- DC Powered or AC Powered with in-built Battery and a Battery Charger
- Industrial Protocols - Modbus, DLMS
- Cloud Connectors - MQTT



XE20-ST1M-NB

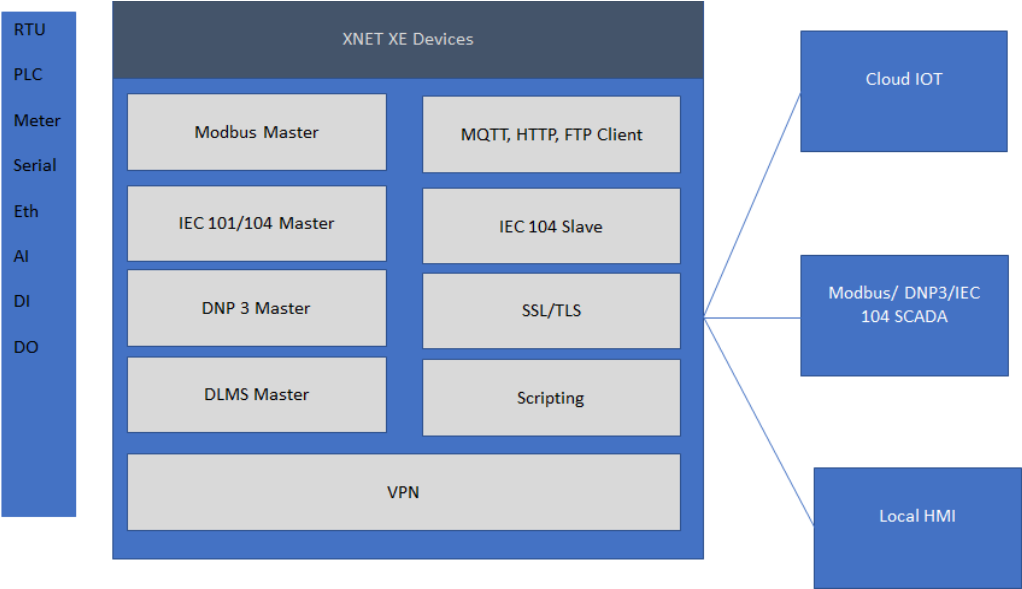
- 4G Cat M1, NB, 2G Multi Utility Terminal
- 16 Channel ST Meter Interface
- SD Card
- Tamper Detection
- RTC Battery Back up
- DC Powered or AC Powered with in-built Battery and a Battery Charger
- Industrial Protocols - Modbus, DLMS
- Cloud Connectors - MQTT



Multi Utility Terminal Comparison

Specifications	XE20-485-NB (Global Variant)	XE20-485-WMBUS-NB (Global Variant)	XE20-ST1M-NB (Global Variant)	XE20-485	XE20-485-IO	XE20-232/XPS
LAN Ports	0	0	0	0	0	0
WAN Ports	0	0	0	0	0	0
Total Ethernet Ports	0	0	0	0	0	0
4G LTE CAT 4	Yes	Yes	Yes	Yes	Yes	Yes
Cellular	1 X LTE CAT M1/NB/2G	1 X LTE CAT M1/NB/2G	1 X LTE CAT M1/NB/2G	1 X LTE CAT1/2G	1 X LTE CAT1/2G	1 X LTE CAT1/2G
4G Bands	LTE-FDD Cat M1: B1/B2/B3/B4/B5/B8/B12/B13/B18 B19/B20/B25/B26/B27/B28/B66/B85 LTE-FDD Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18 /B19/B20/B25/B28/B66/B71/B85	LTE-FDD Cat M1: B1/B2/B3/B4/B5/B8/B12/B13/B18 B19/B20/B25/B26/B27/B28/B66/B85 LTE-FDD Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18 /B19/B20/B25/B28/B66/B71/B85	LTE-FDD Cat M1: B1/B2/B3/B4/B5/B8/B12/B13/B18 B19/B20/B25/B26/B27/B28/B66/B85 LTE-FDD Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18 /B19/B20/B25/B28/B66/B71/B85	B1/B3/B5/B7/B8/B20/B28/ B38/B40/B41	B1/B3/B5/B7/B8/B20/B28/ B38/B40/B41	B1/B3/B5/B7/B8/B20/B28/B38/ B40/B41
3G Bands	NA	NA	NA	NA	NA	NA
2G Bands	850/900/1800/1900	850/900/1800/1900	850/900/1800/1900	850/900/1800/1900	850/900/1800/1900	850/900/1800/1900
DownLink Speed				10Mbps	10Mbps	10Mbps
Uplink Speed				5Mbps	5Mbps	5Mbps
3G Fallback	NA	NA	NA	NA	NA	NA
2G Fallback	Yes	Yes	Yes	Yes	Yes	Yes
SIM Slots	1	1	1	2	2	2
Short Range RF	NA	NA	NA	NA	NA	NA
GPS	NA	NA	NA	NA	NA	NA
Serial	RS485 (Can add RS232 additionally)	RS485	RS485	Isolated 485	Isolated 485	RS232 - Tx,Rx,GND,VCC
PDPoE	No	No	No	No	No	No
RTC	Yes	Yes	Yes	Yes	Yes	Yes
Temp	-20 to +70	-20 to +70	-20 to +70	-20 to +70	-20 to +70	-20 to +70
Power	240V AC	240V AC	240V AC	9-36V DC	9-36V DC	9-36V DC OR 240VAC
Internal Battery Back-up	Yes	Yes	Yes	Yes	Yes	Yes
IPSec VPN	No	No	No	No	No	No
Failover and Load Balancing	No	No	No	No	No	No
Active Active 4G Reduncancy	No	No	No	No	No	No
Digital Inputs	0	0	0	0	2	2 - Optional
Digital Outputs	0	0	0	0	0	0
Analog Outputs 4-20mA/RTD/0-10V	0	0	0	0	2	2 - Optional
Wireless MBUS	NA	Yes	NA	NA	NA	NA
ST Water Meter Interface	NA	NA	Yes - 16 Channels	NA	NA	NA
Modbus Master over Serial or Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
MQTT, FTP, MQTTS, FTPS over LAN / WAN	Yes	Yes	Yes	Yes	Yes	Yes
DNP3 Master over Serial or Ethernet	No	No	No	No	No	No
DNP3 Master to IEC 104 (over LAN/WAN)	No	No	No	No	No	No
DNP3 Slave - Modbus to DNP3 (over LAN/WAN)	No	No	No	No	No	No
IEC 60870-5-104 Slave - Modbus to IEC 104 (over LAN/WAN)	No	No	No	No	No	No
Modbus RTU to TCP	Yes	Yes	Yes	Yes	Yes	Yes
IEEE 62056-21 DLMS - DLMS master to MQTT	Yes	Yes	Yes	Yes	Yes	Yes
Modbus Slave mapped to I/Os	No	No	No	Yes	Yes	Yes
IEC 104 Slave mapped to I/Os	No	No	No	No	No	No
Operating System	ThreadX	ThreadX	ThreadX	ThreadX	ThreadX	ThreadX
Configuration	Local Tool	Local Tool	Local Tool	Local Tool	Local Tool	Local Tool
Certifications						
CISPR 32 - Conducted Emissions	Yes	Yes	Yes	Yes	Yes	Yes
CISPR 32 - Radiated Emissions	Yes	Yes	Yes	Yes	Yes	Yes
IEC 61000 - 4 - 2	Yes	Yes	Yes	Yes	Yes	Yes
IEC 61000 - 4 - 4	Yes	Yes	Yes	Yes	Yes	Yes
IEC 61000 - 4 - 5	Yes	Yes	Yes	Yes	Yes	Yes
IEC 60068-2-1	Yes	Yes	Yes	Yes	Yes	Yes
IEC 60068-2-2	Yes	Yes	Yes	Yes	Yes	Yes
MTCTE	No	No	No	No	No	No

XNET Protocol Suite



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