XNET
Connect . Analyze . Transform

XE-33 – DCU Series

Multiple Serial Interfaces, Edge Computing, rugged high-speed WAN / LTE DCU

With 4 / 8 RS232 ports, LAN, WAN, LTE and inbuilt Metering and Industrial protocols, the XE-33 DCU series is a perfectly suitable for applications like Sub-Station multiple high-speed real-time meter reading and Sub Station Monitoring IED equipment monitoring and control.

Packed with a powerful dual core CPU, aided by intelligent programmable Linux based embedded software, host of Industrial protocols natively supported namely DLMS-COSEM, IEC 60870-5-101, 60870-5-104, Modbus and seamless integration with DNET, the XE-33 DCU series is a perfect choice to feed data for critical applications like Load Forecasting and Decision Support Systems.

XNET Edge – XE 33 DCU Series


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

Connect upto 4 or 8 DLMS Meters to XE-33#DCU Series and read instantaneous parameters on real-time basis. Load profile and Billing data at a configurable time interval and tamper events as and when necessary.
In addition to the Energy Meters, Other IED devices on various other protocols can also be integrated, monitored, controlled or simply connected to a local or remote Scada securely.

Seamlessly connect Sub Station DLMS Meters to XNET Cloud DLMS Meter reading heading system. API to feed data to other 3rd party systems

4GLTE

Datetime	Current L1	Current L2	Current L3	Voltage L1	Voltage L2	Voltage L3	Supply Freq Current	kWH Import	kWH Export
29/05/2020 21:00:00	0 A	0 A	0 A	24524 V	294 V	293 V	0	0	0
29/05/2020 20:30:00	0 A	0 A	0 A	24578 V	294 V	293 V	0	0	0
29/05/2020 20:00:00	0 A	0 A	0 A	24620 V	293 V	292 V	0	0	0
29/05/2020	0 A	0 A	0 A	24736 V	292 V	291 V	0	0	0

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
4/8 X Full RS232 or 2 X RS232 + 1 X RS485
1 X CAT 4 LTE Cellular (Optional)
1 X Mini SIM
PD PoE over WAN interface
 GNSS (optional)

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

Cellular:
LTE FDD: B1/B3/B5/B7/B8/B20
LTE TDD: B38/B40/B41
WCDMA: B1/B5/B8
GSM: B3/B8

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

Power
11-28 VDC or 240 VAC
 Max Power consumption in dual LTE Mode 24W

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 1 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
PPTP client
L2TP client
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
DLMS Master
OPC- UA (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

MAKE IN INDIA