



Verticross India Pvt. Ltd.

Company Profile

Corporate Office: 201, Babukhan Millennium Center,
6-3-1099/1100, Raj Bhavan Road,
Somajiguda, Hyderabad,
Telangana – 500082



About Us...



We acquire, integrate and analyze data from simple to complex business processes across various verticals (“VERTICALS aCROSS”) in Power, Water, Oil & Gas, Transportation, Environment and Security & Surveillance sectors.

Our unique Research & Development team interfaces with institutions and industries to design, build and implement cost-effective, scalable, customized tools and processes that simplify the challenges in data acquisition, integration and analysis.



Our tangible strength emanates from a team of experts of various industry practices possessing strong domain, technical and management skills.



Our Vision



To have the earnest desire to be a technology and process driven organization with the prime focus to acquire, integrate and analyse Data thereby bringing value added propositions and solutions to our customers.

To continuously strive to make our solutions, services and products conform to the highest industry quality standards, without compromising on cost-effectiveness and scalability to meet customer challenges.

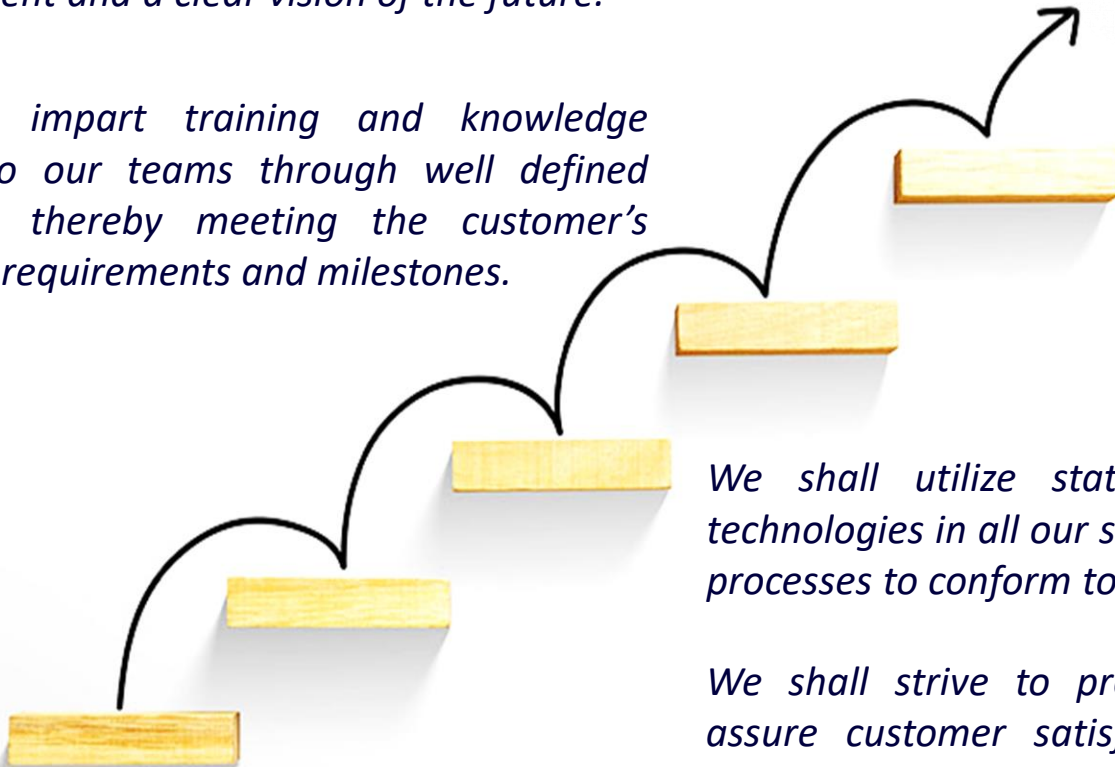
*Strive with determination to be one of the global leaders in **“Data Acquisition, Integration and Analytics”** by the year 2024.*



Our Mission

We shall excel with focus on our business objectives through meticulous planning, dedication, commitment, quality consciousness, creativity, continuous improvement and a clear vision of the future.

We shall impart training and knowledge transfer to our teams through well defined processes, thereby meeting the customer's stipulated requirements and milestones.



We shall utilize state-of-the-art tools & technologies in all our solutions, products and processes to conform to industrial standards.

We shall strive to provide higher returns, assure customer satisfaction and promote moral values to our stakeholders, not compromising on business ethics.



Value Proposition

*Data acquisition, integration and analysis
R&D (Indigenous technologies)
Energy & Utilities
Transportation
Security and Surveillance
Environment*



EXPERTISE

*360° solution provider
User-friendly
Quality assured
Scalability
Delivery par excellence
State-of-the-art technology
Optimal ROI
Social consciousness*



BENEFITS



PRODUCTS

*Real time data loggers & SCADA
AMR (2G/3G/4G/RF)
DCU (2G/3G/4G/RF)
Feeder & Transformer Monitoring
Communication Tracker App
MDAS & MDM
Vehicle Tracking*

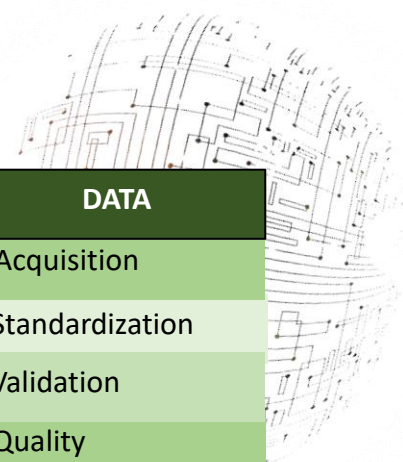


SERVICES

*Project Management
Facility Management
Survey
Installation & Commissioning
Maintenance & Support
Consultancy
Training*



In Encapsulation.....



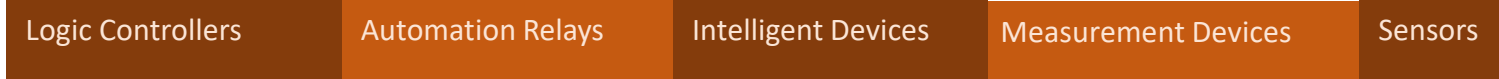
Security & Surveillances

Environment

Transportation

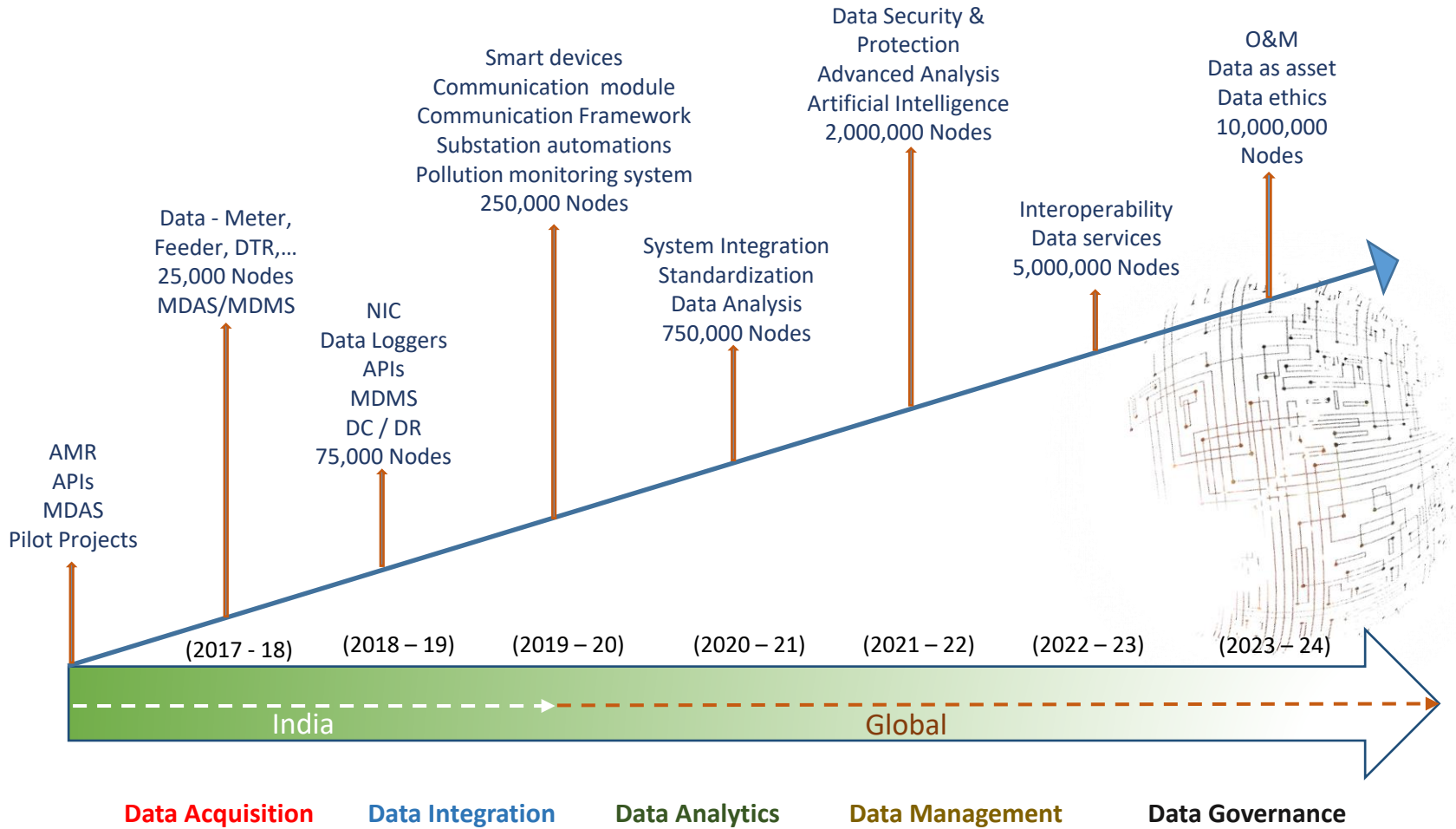
Energy & Utility

DEVICES	Technology			DATA
Data Loggers	GSM / GPRS	FTP	MODBUS	Acquisition
Modems	RF	TCP/IP	DLMS	Standardization
Convertors	LPR	XML	IEC	Validation
DCU	ZigBee	UDP	Legacy	Quality
RTU	LoRa	PPP	SPORT	Preparation
Protocols	PLCC	M2M		Security
APIs	WiFi			Integration
	Bluetooth			Analytics





Evolution



Energy & Utility

Transportation

Environment

Security & Surveillances



Our Goals



Market Share

Deliver Values

Enhance Profits

Brand Image

Exponential Growth

Emerging Technologies

Stakeholder Satisfaction

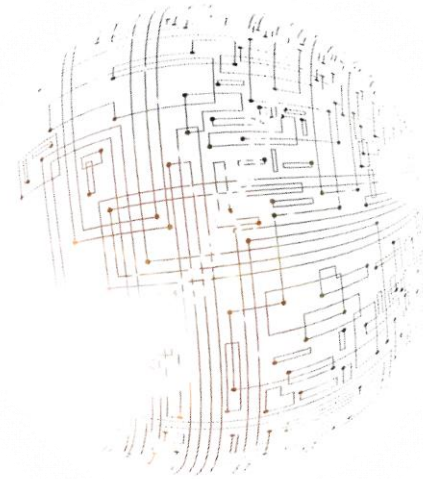
Operational Efficiency

Indigenous Development

Be a leading data acquisition company



Industry focus





Quality Conformance

Certificate of Registration
GMCSPL hereby certify that the organization

VERTICROSS INDIA PRIVATE LIMITED

201, Babukhan Millennium Centre, 6-3-1099/1100,
Raj Bhavan Road, Somajiguda, Hyderabad - 500 082,
Telangana State, India.

Has established and applies a Quality Management System in accordance with

ISO 9001:2015

For the scope of activities :

Manufacturing, Supply, Installation and Commissioning of RTU, DCU, Automatic Meter Reader (AMR), RF/GSM/GPRS Communication Modules, Advanced Metering Infrastructure, Smart Metering, Meter Data Management System (MDMS), Feeder Monitoring Solutions, Data Analytics, Drone Solutions, Water Automation, ESCO Services, Renewable/ Clean/ Green Energy Solutions.

Q-180108	10 January 2018
Certificate Number	Date of Last Issue
10 January 2018	09 January 2019
Date of Initial Registration	Date of Expiry

Certificate is Valid for 3 Years (10.01.2018 to 09.01.2021) From the Date of Initial Registration. Upon Successful completion of Surveillance Audit New Certificate With an Extended Validity Will be issued. Registered on behalf of GMCSPL.

Global Management Certification Services Pvt.Ltd.
#402, Plot No.410, Madhav Nagar, Madhapur, Sarifnagar, Hyderabad - 500 049, India.
www.mcspl.com, E mail: info@mcsglobal.in
This certificate is the property of GMCSPL, and shall be returned upon request by GMCSPL. The Registrant shall not misuse the quality of goods under the firm's production.

Certificate of Registration
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201, Babukhan Millennium Centre, 6-3-1099/1100,
Raj Bhavan Road, Somajiguda, Hyderabad - 500 082,
Telangana State, India.




Has established and applies a Information Technology Service Management System in accordance with

ISO/IEC 20000-1:2011

For the scope of activities :

Manufacturing, Supply, Installation and Commissioning of RTU, DCU, Automatic Meter Reader (AMR), RF/GSM/GPRS Communication Modules, Advanced Metering Infrastructure, Smart Metering, Meter Data Management System (MDMS), Feeder Monitoring Solutions, Data Analytics, Drone Solutions, Water Automation, ESCO Services, Renewable/ Clean/ Green Energy Solutions.

180101-IT	10 January 2018
Certificate Number	Date of Last Issue
10 January 2018	09 January 2019
Date of Initial Registration	Date of Expiry

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Has established and applies a Information Security Management System in accordance with

ISO 27001:2013

For the scope of activities :

Manufacturing, Supply, Installation and Commissioning of RTU, DCU, Automatic Meter Reader (AMR), RF/GSM/GPRS Communication Modules, Advanced Metering Infrastructure, Smart Metering, Meter Data Management System (MDMS), Feeder Monitoring Solutions, Data Analytics, Drone Solutions, Water Automation, ESCO Services, Renewable/ Clean/ Green Energy Solutions.

180102-1	10 January 2018
Certificate Number	Date of Last Issue
10 January 2018	09 January 2019
Date of Initial Registration	Date of Expiry

Certificate is Valid for 3 Years (10.01.2018 to 09.01.2021) From the Date of Initial Registration. Upon Successful completion of Surveillance Audit New Certificate With an Extended Validity Will be issued. Registered on behalf of GMCSPL.

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“VERTICROSS” your data acquisition partner

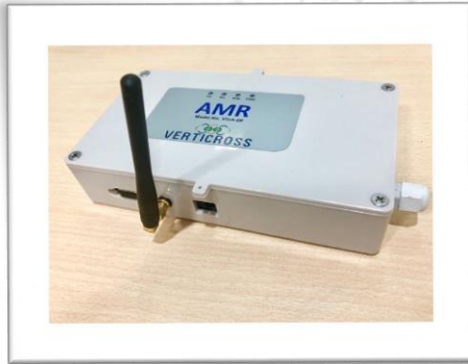


Products & services



Vlink-09

GSM/GPRS (2G/3G/4G) – Intelligent / Transparent **AMR** Modem



Chip

ARM Cortex M0+ Core
32 Mb Flash
SIM800C

Water & Dust Resistant

Rated IP55 under IEC60529

Ports

RS-232, RS-485,
Ethernet

Size & Weight

210 x 110 x 40 (mm)
480 gms

SIM Card

Single/ Dual SIM
Standard size

Functionalities

Remote meter data acquisition from
DTR/HT/LT consumer energy meters
Remote import & export
Programming Over The Air
Remote Diagnostics & Configuration

Accessories

Antenna 3/6 dbi
4 Core 0.5 sq.mm electrical cable
Comm Cable - Optical to DB9
RS232, RJ11 to DB9 RS232/
RS485, RJ9 to DB9 RS232

Environmental

Ambient Temp -10 °C to +60 °C
Humidity up to 95% non-
condensing

Power & Battery

60V – 500V AC Operating Voltage
3.7V Li-Ion 800mAh Rechargeable
Battery

Protocols

DLMS/COSEM, MODBUS, IEC,
Non-standard legacy protocol,
FTP, HTTP

Standards

IEC61000-4-2/3/4/5
CISPR22

Cellular

GSM/GPRS/EDGE/2G (850MHz,
900MHz, 1800MHz, 1900MHz)
WCDMA (1732 MHz, 2100MHz)
FDD-LTE (B1,B3,B5,B7,B8,B20)
TD-LTE (B38,B40,B41)

VDLo-09

Data Logger



Functionalities

Remote monitoring & data acquisition from sensors (all communicable probes), IED, MFT, feeder meters, breakers, etc.

Data scan rate @ 1ms

Local HMI

Data communication to HES using GSM/ GPRS, LTE and LAN.

Local data storage (alerts, alarms and 45 days data expandable to 180 days)

Time synchronization

Customizable & Scalable

Remote diagnostics & configuration

Remote firmware upgradation

Master/ Slave configuration

Processor

Dual Core ARM Cortex
500MHz

256 Mb Flash, 128 Mb RAM

Interface

8/16 Channel optically isolated
digital input card (Data scan rate
1ms)

8/16 Channel optically isolated
digital output card

8/16 Channel analog input card (0-
10mA, 4-20mA, 0-5V DC)

Power Supply

Redundant (Optional) power
supply card

90-270V AC, 24/48/110V DC

Surge protection up to 10KV

Ports

2 x RS-232 (expandable up
to 6), RS-485, Ethernet

Protocols

DLMS/COSEM, MODBUS,
IEC 60870-101/4, DNP 3,
SPORT, IEC 61850, Non-
standard legacy protocol,
UDP, PPP, FTP, HTTP

Standards

IEC61000-4-2/3/4/5
CISPR22

Operating system

Embedded real time
Linux 2.6 onwards /
Win CE 5 onwards

Environmental

Ambient Temp -10 °C to
+60 °C
Humidity up to 95% non-
condensing

Water & Dust Resistant

Rated IP55 under IEC60529



VNic-09

3G/4G – Communication Network Interface



Interface

USART

Size & Weight

93 x 46 (mm)

75 gms

SIM Card

Single SIM

Standard size

Chip

ARM Cortex M0+ Core

32 Mb Flash

Power

5-12V DC

3.7V Li-Ion 150mAh Rechargeable

Battery (optional)

Standards

IEC61000-4-2/3/4/5

CISPR22

Cellular

GSM/GPRS/EDGE/2G/3G/4G

(850MHz, 900MHz,

1800MHz, 1900MHz)

WCDMA (1732 MHz,

2100MHz)

FDD-LTE

(B1,B3,B5,B7,B8,B20)

TD-LTE (B38,B40,B41)

Environmental

Ambient Temp -10°C to

+60°C

Humidity up to 95% non-

condensing

Functionalities

Smart interface card for energy meters

Interface with MDMS application

Bidirectional communication

LED indication for power & network

32/64/128Mb External flash memory

for local storage

Programming Over The Air

Remote diagnostics & configuration

Push & alarm services

Meter reading schedule configurable

Accessories

Antenna 3/6 dbi



VFmu-09

Feeder Monitoring Unit



Ports

RS-232

8 optically isolated DI

Standards

IEC61000-4-2/3/4/5

CISPR22

Cellular

GSM/GPRS/EDGE/2G (850MHz,
900MHz, 1800MHz, 1900MHz)

WCDMA (1732 MHz, 2100MHz)

FDD-LTE (B1,B3,B5,B7,B8,B20)

TD-LTE (B38,B40,B41)

Chip

ARM Cortex M0+ Core

32 Mb Flash

Water & Dust Resistant

Rated IP51

Accessories

Antenna 3/6 dbi

2 Core 1.0 sq.mm electrical cable

Protocols

PPP, TCP/IP, PAP

Size & Weight

250 x 80 x 30 (mm)

500 gms

SIM Card

Single SIM

Standard size

Functionalities

Remote substation feeder monitoring, recording of feeder supply & interruption.

Feeder ON/OFF monitoring from breaker auxiliary contacts and also from NC/NO.

Feeder data management. Programming Over The Air.

Remote diagnostics & configuration.

Time synchronization.

Reduce MTBF

Environmental

Ambient Temp -10 °C to +60 °C

Humidity up to 95% non-condensing

Power

18V - 36V DC Operating Voltage

6-10KV surge protection

VProCon-09

Protocol Convertor



VProCon-09-24

RS232 to RS485 Convertor

*Bidirectional
convertor.*

*Baud rate 300 to
115200 bps.*

*Communication
distance up to
4000 ft.*

*Automatic data
direction control.*

*Operating
voltage 2.4-3.6V
DC*

*Third party
application
compatible.*



VProCon-09-13

SPI to I²C Convertor

*Bidirectional
convertor.*

*4 wire SPI bus
@1MHz.*

*I²C data at
frequencies up to
400 KHz.*

*255bytes data
buffer for transmit
& receive.*

*Operating voltage
2.4-3.6V DC*

*Third party
application
compatible.*



VProCon-09-25

Serial to Ethernet Convertor

*Bidirectional
convertor.*

*Baud rate 300 to
115200 bps.*

*Transmission of
data in
transparent mode.*

*Transfer speed
20MHz*

*Operating voltage
3.3, 5.0V DC.*

*Third party
application
compatible.*



VSM-09

Single Phase Smart Energy Meter (5-30A)



Features

Class 1.0 accuracy compliance with IS/IEC standards
Programmable Time of Use metering.
Load Connect/Disconnect feature with inbuilt relays
Firmware download feature through remote communication
LED indications for Calibration and Meter status
Optical communication for local meter reading

Compliance Standards

Metrology Class1.0: IS13779
Data exchange, Tariff and Load control: IS15959 Part2
Smart Meter : IS16444
EMI/EMC: IEC61000
Environmental : IS9000

Specifications

Voltage :240V(L-N)
Basic Current: 5Amp
Maximum Current: 30Ams
Accuracy: Class 1.0
Connection: Single phase two wire
Operating Voltage: 96V to 290V AC
Starting Current : 0.4% of basic current
Power factor : Zero Lag-Unity-Zero Lead
Local Data download: Optical Port
Remote Data download: GPRS/RF
Standards : IS16444,IS15959-2,IS13779

Registers

Maximum Demand :Programmable
Billing Registers: Up to 12 months
Time of Use: Programmable time zones
Tariff Registers: Programmable Tariff registers

Communications

Local: Optical Port
Remote : 2G/4G/Nb-IoT/RF/SIGFOX/LoRa
Security: AES128 Encryption



VTM-09

Three Phase Four Wire AC Static Watthour Meter



Technical Details

Phase : Three Phase Four Wire

Application : LT Network

Parameters Available : kWh, KVAh, KVARh, V,I,PF

Applicable Standard : IS16444

Current Rating : 10-60A

Starting Current: 0.2% of Ib

Applicable Standards

IS16444

IS15959 Part2

IEC62052-11

IEC62056-21

IS13779

ENVIRONMENTAL

Operating Temp: -10 degrees to +60 degrees

Limit Temp. Range of storage: -20 degrees to +80 degrees

Relative Humidity: Up to 95% non-condensing

Specifications

Accuracy: Class 1.0

Local data reading: Optical port

Latest Micro controller based digital technology.

Back light LCD display with symbols for various critical events.

LCD/LED indications for tampering and phase availability.

Two separate metrology LEDs for accuracy testing of different energy types (Active and Reactive).

Display in absence of Power supply

Programmable load profile for 15 minutes or 30 minutes or 60 minutes interval for kWh, kW

MD, voltage, current

Communication module: GPRS/4G/Nb-IoT/RF

Load Connect/Disconnect feature 4 Latching Relays

Tamper proof design.

Meter records correct energy with same accuracy under reverse current connection.

No frequent adjustments required.

TOD Registers: up to eight

Tamper data: 20 events for each tamper with date and time

Auto scroll & manual scroll mode (push button mode)

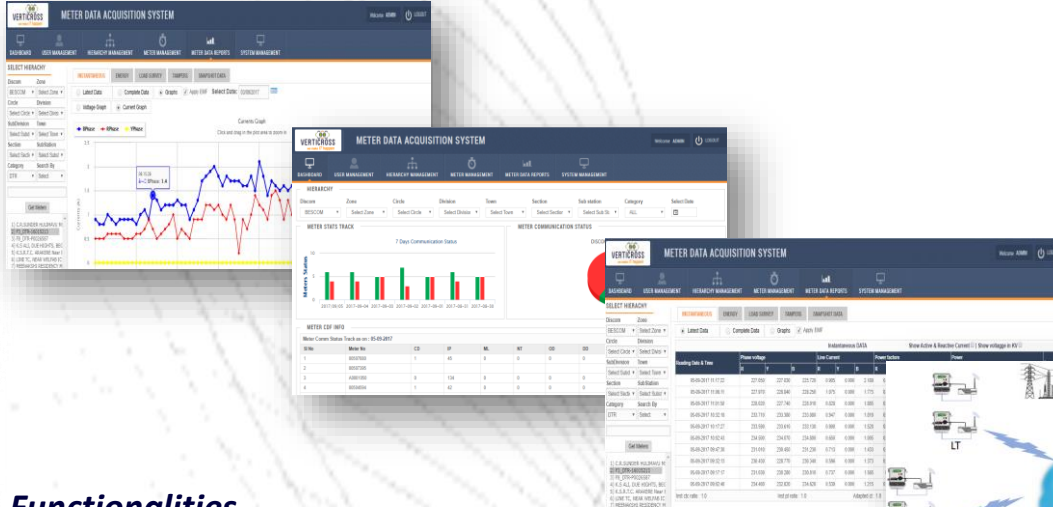
Maximum demand registration.

Historical billing information

No mechanical wear & tear.

MDAS

Meter Data Acquisition System



Functionalities

Acquires meter data from various makes & models of energy meters at DTR/LT/HT/Feeder locations.

Energy Data - Billing data, load survey data, tamper data, instantaneous data, alerts & alarms, active & reactive power, system outages / downtime, Meter data on demand.

Time synchronization

Seamless Integration with third party MDM.

Functionalities

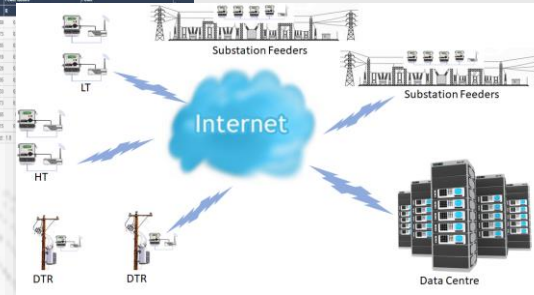
Device setup checks.

Flexible design to interface with energy meters of any make.

Remote configuration & diagnostics

Programming Over The Air.

Import & export of data in MIOS-XML format



Functionalities

Modem communication failure, cumulative energy, energy consumption, generation of graphs, alerts & SMS for abnormal events, Interfaces with modules such as performance indicator & energy audit. Customized report generation.

Services



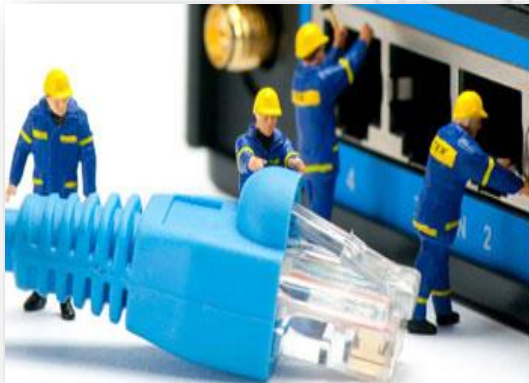
Consultancy

*Design and development of embedded systems.
Smart technologies.
Data acquisition.
Asset management.
Energy management.
Renewable Energy, SCADA,
Substation automation, Water distribution, Vehicle tracking system, Fuel station automation and Pump automation*



Facility Management & other services

*Management & support of Data Center & recovery.
Setting up of design & development centers.
Project/Program management.
Consumer indexing and GIS.
Training
24x7 Help Desk*



Installation, Commissioning & Maintenance

*Survey
IT infrastructure and networking for DC & DR.
Meters, AMRs, Transformers, RTUs, FRTUs, DCUs, SCADA solutions, Solar panels/ PV modules, invertors, batteries, change controllers, RMU, Sensors, Tank gauges, Probes, etc.
AMC*



Credentials



Customers

Customers



Partners



Products



Services



Partners



HITACHI





Thank You

Verticross India Pvt. Ltd.

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6-3-1099/1100, Raj Bhavan Road,
Somajiguda, Hyderabad,
Telangana – 500082

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