



## SAMIO

### **A Remarkable Smart Network Monitoring & Control**

1

SAMIO is a polyvalent monitoring system that supports distribution utilities in a broad range of remote applications independent of existing level of automation. It is a “Proactive” smart solution that boosts network improvement and increase productivity as well as customer services & satisfaction.

2

SAMIO can Monitor & Control any distribution asset in Water, Electrical and Sewage systems. It can be used, indoor as well as outdoor, wall or pole mounted, withstanding harsh environment. Our “All in One” solution supports various activities in Operations, Maintenance and Asset Management.

3

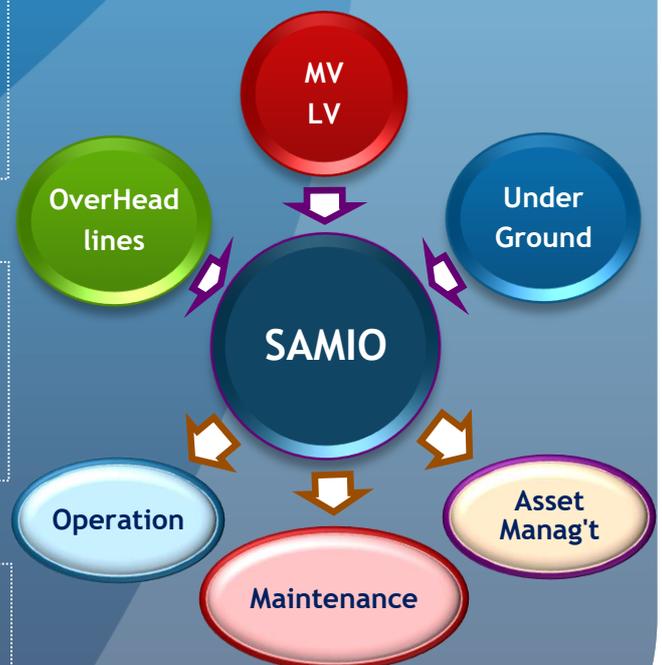
SAMIO is supported by reliable int’l Partners offering a “Plug & Play” design, with high quality of products in a very low cost. It is an optimum solution for distribution network.

4

SAMIO is a local or a web-server solution that supports utility smart grid as it is ready integrated with GIS. It is powered with latest IoT technology or GSM that ranks it as first in class in flexibility & reliability.

5

SAMIO is compact in size (18x11cm); it can be fitted in most locations independent of weather condition. It has master & slave feature to enlarge scalability.



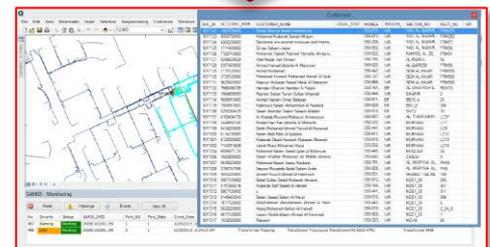
## SAMIO Advanced Features:

- End to End, user friendly solution: covering sensors, monitoring & control Unit, smart diagnosis, communication and software with dashboard
- Fast implementation => Immediate Return On Investment
- Fast Performance Improvement impact
- SAMIO can be retrofitted to existing assets with easiness
- SAMIO is a polyvalent solution that can be a standalone system with Google Maps, or integrated to GIS or SCADA
- Local data management through TCP/IP or into a webserver
- It facilitates mobility and network management
- Enhance Safety, Reduce robbery
- Remote over the air programming, heartbeat, battery low alarm.
- 100% message acknowledgment
- Decentralized Artificial Intelligence capabilities
- AC voltage input: 85 - 265 volts AC. Designed to high Pri-Sec Isolation Class II - Materials: UL94-V0 - Designed to Safety: EN61558, EN60950
- Solar Power input ready for remote areas
- Powered by LoRa Star + Mesh IoT comm., AES128 Encryption
- It has 3G,4G-GSM Integrated Communication module - CE, FCC approved
- Double communication feature to handle "Master & Slave" scenario
- SAMIO is almost 100% uptime, backed up by an internal rechargeable battery lasting for more than 6 hrs.
- Operating temperature range -20°C to 75°C
- 8 smart digital Input, 2 power relay Output 8A-220V AC, and RS485 Modbus RTU
- Input Voltage Measurement and push notification for abnormalities
- Temperature & Relative Humidity Measurement
- IP 67 rated box with magnetic clip
- Compact size 18 x 13 x 5 cm
- Fail safe design
- Fraud, Open cover or tilting detection...

## Monitoring of OHL / UG electric Assets



- Mains power / Transformer trip
- Breaker / Fuse Tripping
- Transformer Over Temp. / pressure Alarm
- LV Cable termination overheating
- Earth Fault Indicator Alarm
- Partial Discharge Alarm
- SF6 gas low Level Alarm
- Over-Voltage / Under-voltage
- Overload / Unbalance alarm
- Motion detection
- Smoke detection
- Energy monitoring: V, A, P, Q, PF, THD...



**SAMIO permanently watches your assets & lets you manage them easily, remotely...**

## System Structure:

