Krionix™
CONNECTING THE DOTS OF TOMORROW

PADMASHAKTI IOT TECHNOLOGIES PVT LTD



PRODUCT CATALOGUE · 2026

Know your assets before they fail.

Made-in-India IoT monitoring for transformers, plants, meters and water. One 4G logger, one cloud, one app.



Transformer health
THMS for DTs

Plant energy
Panels and machines

Retrofit metering
Energy and water

Sensors and IoT
30+ applications

UEIOT Live app
Android

www.krionix.in

Padmashakti IoT Technologies Pvt. Ltd.
Technology partners: Hexitronics Automation LLP · UEIOT

#startupindia

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COMPANY PROFILE

Padmashakti IoT Technologies Pvt. Ltd.

A next-generation Industrial IoT company transforming traditional utilities and industries into smart, data-driven and efficient enterprises, connecting one device at a time. We trade under the brand Krionix.

Our mission

To develop IoT hardware and software end-to-end in-house, empowering utilities and industries with real-time insights that reduce downtime, optimise energy use and enable smarter decisions.

Our vision

To become a leading IoT provider for smart utilities and infrastructure: an intelligent ecosystem where every machine, process and asset runs at peak efficiency, safety and sustainability.

Leadership



Shri Gulab Chand D. Jain

Managing Director

40+ years in electrical equipment and manufacturing.



Shri Kiran S. Kulkarni

Director

Hexitronics Automation LLP; formerly with BARC (Trombay). IoT and large-scale infrastructure.



Shri Basavaraj M. S.

Director

Founder, Universal Electricals; 30+ years in electrical supervision, LT panels and transformer yards.

Built by partners

Krionix is a newly formed company in which we are all partners, together with **Ashwin G Jain** (Krionix), **Ananth** and **Vaman** (Hexitronics Automation LLP) and **Nikhil M B** (Universal Electricals · UEIOT). Together the team brings decades of electrical field experience with in-house electronics and software.

100+ yrs
combined electrical and engineering experience

Harihar
headquarters, Davanagere district, Karnataka

2025
incorporated as a private limited company

5 ESCOMs
serviceable across Karnataka with local teams



Power utilities
Transformer health across the network



Industry
Plant energy and machine condition



Control rooms
Fleet dashboards and alerts

COMPANY PROFILE

One team, from design to field support

Krionix brings together hardware, software and licensed electrical field expertise, so the people who design a device also install it and support it.

Our capabilities, end to end

R&D and design
Electronics, firmware and enclosures designed in-house

Manufacturing
Assembled and tested in India with our technology partner

Cloud and app
AutoStack™ cloud, dashboards and the UEIOT Live app

Installation
Licensed electrical team: survey, install, commission

Support
Training, alerts set-up and periodic health reports

Technology partners

Hexitronics Automation LLP

Technology partner · electronics and automation

- Electronics design and manufacturing
- Industrial automation expertise
- ISO 9001:2015 certified quality system

UEIOT · Universal Electricals

Technology partner · IoT platform and field services

- UEIOT Live app and energy-monitoring stack
- Class I electrical contractor, up to 33 kV
- Custom LT panels, installation and commissioning

Certifications and registrations

ZED Bronze · CE marked · ISO certified · Make in India · Udyam MSME · DPIIT startup

Indian patent applications

- 202541076329 (water meter retrofit)
- 202541062777
- 202541094317

Company registration

- CIN U62013KA2025PTC207648
- GSTIN 29AAQCP1438A1ZF

Aligned with

- Make in India
- Atmanirbhar Bharat
- Startup India



Smart metering
Retrofit for existing meters



Field installation
Licensed team, up to 33 kV



AutoStack™ cloud
Built and run in-house

KRIONIX AT A GLANCE

An Indian OEM for smart utilities and industry

Padmashakti IoT Technologies Pvt. Ltd., trading as Krionix, designs and manufactures IoT hardware in Harihar, Karnataka, and runs it on its own AutoStack™ cloud. Existing transformers, panels and meters report their condition in real time, without being replaced.

2025
Incorporated, headquartered in Harihar

DPIIT
Recognised Startup India company

3
Indian patent applications filed

100%
In-house hardware, firmware and cloud

One platform, end to end

Your assets
Transformers, panels, meters, machines

›

Krionix logger
Reads meters and sensors at the edge

›

4G M2M
Built-in SIM, no site network

›

AutoStack™ cloud
Rules, alerts, history, AI

›

Your team
Web dashboard, app, reports, APIs

Transformer health
Live electrical, thermal and physical health of every DT, with early alerts

Plant energy
Department-wise energy, power quality and machine condition

Retrofit metering
Energy and water meters made smart without replacing them

Sensors and IoT
Loggers and gateways for 30+ industrial applications

Who we serve

- Power utilities and DISCOMs
- Sugar, power and process plants
- Manufacturing plants
- Municipal corporations
- Water schemes
- Government departments and PSUs
- Smart city projects
- Commercial buildings
- Campuses and institutions
- Housing societies

Our promise

- **Retrofit first**
  Upgrade the asset, keep the investment
- **Built in India**
  Designed and manufactured in Karnataka
- **One team**
  Device, cloud, app, installation and support

Technology partners: Hexitronics Automation LLP · UEIOT

Hexitronics: ISO 9001:2015 · UEIOT: Class I licensed installation up to 33 kV

TRANSFORMER HEALTH MONITORING

A smart guardian on every transformer

A weatherproof logger beside each distribution transformer measures its electrical and physical health around the clock and sends it over 4G. Engineers see it live and are alerted the moment anything drifts out of range.



No change to the transformer: the unit mounts on the structure beside it.

What it watches

Electrical

- Phase and line voltages
- Phase currents, unbalance
- kW, kVA, kVAr, demand
- kWh, kVArh, PF, frequency
- Harmonics

Physical

- Oil and winding temperature
- Ambient temp, humidity
- Oil level
- Body cavity pressure
- Vibration, tap position

Parameters depend on the transformer rating and package.

How THMS sees a failure coming

Voltage drops / Load rises › Current rises › Oil and winding heat up › Failure

THMS alert zone: time to act



T-Hawk Pro — 150–1250 kVA

Full health logger: electrical set, oil level and temperature, vibration, pressure, tap position



T-Hawk Lite — 25–100 kVA

Compact monitor: temperature, load, voltage and alerts at low cost



T-Sense — Add-on sensing

Wireless sensor: temperature probe, with vibration and oil-level options

TRANSFORMER HEALTH MONITORING

From alert to action, every time

THMS fits the way field teams already work. One command centre can oversee thousands of transformers across divisions, run by the utility or as a managed service by Krionix.

Alert workflow

1. **Alert raised** — Dashboard and phone
2. **Assigned** — Supervisor to technician
3. **Attended** — Site visit, action taken
4. **Verified** — Readings back to normal
5. **Closed** — Logged for reports

Alert matrix

Condition	Detected from	Typical action
Overload	Phase currents, kVA above rating	Shift load, plan upgrade
Phase unbalance	Difference between phase currents	Rebalance connections
Low / high voltage	Phase and line voltages	Check tap and feeder
Over-temperature	Oil and winding temperature trend	Reduce load, check cooling
Low oil / leakage	Oil level sensor	Top up, inspect for leak or theft
Pressure rise	Body cavity pressure	Inspect for internal fault
Abnormal vibration	Vibration sensor	Inspect mountings and core
Supply or unit offline	Loss of data or supply	Dispatch crew; outage logged

Thresholds are configurable and agreed with your engineers during commissioning.

Packages by transformer rating

Rating	Typical location	Monitored
25–100 kVA	Rural and agricultural feeders	Electrical set, oil temp, ambient, vibration
150–315 kVA	Urban and town distribution	Adds oil level and body pressure
400–1250 kVA	Commercial, industrial, critical loads	Adds harmonics, winding temp, tap position

Fewer failures
Overload, oil loss and overheating caught early

Shorter outages
Fault and offline alerts send crews straight to the DT

Targeted maintenance
Field teams go where readings show a need

Planning data
Measured loading for upgrades and rebalancing

Theft signals
Sudden load or unbalance flags unauthorised loads

Reliable supply
Steadier power for farms, villages and industry

PLANT ENERGY MONITORING

Every panel. Every machine. Live.

From the main incomer to every machine, plant teams see energy, power quality and equipment health in real time, and act before bills or breakdowns.



Plant-wide view, like your SLD



Every point rolls up to its parent panel, so energy and cost show by plant, department or machine.

Five modules

1. **Main incomer and MDB**
   Know your bill before it arrives
2. **Sub-DBs and departments**
   Give every unit of energy an owner
3. **APFC panels**
   Keep PF inside tariff limits
4. **Transformers and DG sets**
   Loading, temperature, fuel, run hours
5. **Machines and motors**
   Vibration and temperature before breakdowns

Lower bills
PF and demand kept inside tariff limits

Less downtime
Faults found weeks before breakdowns

Energy owners
Department-wise cost and reports

Audit-ready
Measured data for energy audits and ESG

RETROFIT METERING

Smart meters, without new meters

Krionix retrofit devices fit onto existing energy and water meters and connect them to the cloud over 4G. The meter stays; you add remote reading, alerts and control.



Industrial estates · Commercial · Colonies · Campuses · Sub-metering

Energy AMR retrofit

A compact unit that sits with the existing meter and makes it a cloud-connected smart meter.

Data measured	kWh, kW, voltage, current, frequency, power factor
Control	30 A relay for remote connect / disconnect
Status	LED: running · tripped (payment due) · tripped (overload)
Connectivity	4G LTE with M2M SIM
Installation	Tool-less, non-invasive; meter seals stay intact
Onboarding	Unique device ID, zero-touch on AutoStack™
Power	6 W consumption
Certification	BIS certification in process



Jal Jeevan Mission · Municipal billing · Housing societies · Campuses · Industry

Water OCR AMR retrofit

A camera reader that clips onto a mechanical water meter and reads its certified digits by OCR, with an image behind every reading.

Reading method	On-board camera with LED; OCR of register digits; image stored with each reading
Connectivity	4G LTE (Cat 1) with SIM, to AutoStack™
Power	$LiFePO_4$ battery, multi-year life at typical intervals
Fitting	Clamp-on bracket for multi-brand meters; tamper alerts
Patent	Indian patent application 202541076329

Live in three steps

1 · Fit
Install in minutes
A technician fits the device, scans its ID and geotags it

›

2 · Connect
Readings over 4G
Data travels on an M2M SIM; buffered if the network drops

›

3 · Use
See and act
Readings, alerts and reports on dashboard, app and APIs

SENSORS AND CONNECTIVITY

Any sensor, any site, one cloud

Plug-and-play loggers and gateways connect the meters, sensors and machines you already have. Once powered, they appear on the dashboard.



S-LOG

4G · Wi-Fi · Ethernet

Multi-channel logger: temperature, humidity, pressure, air quality (CO_2, VOC), analog, digital and Modbus inputs



S-Node

Solar · wireless

Wireless node for remote sites: temperature, humidity, vibration and tilt, digital inputs; solar powered



4G IoT Gateway

RS485 to 4G

Brings existing RS485 / Modbus meters and devices to the cloud, with a built-in M2M SIM

How it connects

FIELD

- Energy meters (RS485 / Modbus)
- 4–20 mA and 0–10 V sensors
- RTD / PT100 temperature
- Vibration sensors
- Digital inputs: status, alarms
- PLCs and VFDs (Modbus RTU / TCP)

EDGE



Krionix gateway / logger

Edge logic, buffering, OTA updates

CLOUD AND USERS

- AutoStack™ cloud or on-premise
- Dashboards and alerts
- UEIOT Live app
- ERP, SCADA, MDMS via APIs

Protocols and networks

Modbus RTU · Modbus TCP · MQTT · REST APIs · 4G LTE · Wi-Fi · Ethernet · LoRa / LoRaWAN · RS485 · 4–20 mA · Digital I/O

The edge gateway buffers data during network outages and syncs automatically when the connection returns.

Custom IoT development

Need something special? Our team builds custom hardware, firmware, dashboards and integrations for BMS, ETP, STP, WTP and Edge-PLC projects.

If it has a meter or a sensor, we can connect it.

AUTOSTACK™ PLATFORM

Ready the moment a device powers on

Our in-house IoT cloud, common to every Krionix product. Each device is onboarded automatically with its own dashboard, storage and access rights, from the field technician to the control room.



Zero-touch onboarding
Device IDs, barcode capture, geotagging, bulk CSV

Multi-level access
Role-based views from field staff to state authorities

Utility integration
REST / MQTT APIs, HES / MDMS adapters

Alerts and reports
Escalations; PDF, Excel and CSV reports

Secure by design
AES-256, multi-factor login, audit trail

Akiva™ AI agent
Anomaly detection and plain-language insights

Platform specification

Data intervals	1 to 60 seconds, configurable per device
Availability	99.9% cloud uptime target
Retention	5+ years of history for trends and audits
Scale	Single device to 10,000+ data points; multi-site
Hosting	Krionix cloud or on-premise in your data centre



Your data stays yours
You own the data. Krionix uses it only to run the service and prepare your reports.

UEIOT LIVE · ANDROID APP

Your whole site, live in your pocket

Every meter, panel and alarm updates within seconds. Owners, plant managers and field teams each see what matters to them, wherever they are. Same login and data as the web dashboard.



Plant overview
Every panel live, with automatic insights

Live readings
V, I, kW, PF and frequency every few seconds

Trends
Pinch-zoom any day, week or month

Insights and AI assistant
PF penalties, night load, month-end forecast

Alarms
Critical alerts with their own tone

Reports
Daily, weekly, monthly findings with cost

Bill scan
Photo of the bill, checked against meters

ESG ready
Energy, cost and CO_2 for audits

Owners
Today's cost, month-end forecast, critical alarms

Plant managers
Demand, PF and department trends to share

Maintenance
Live readings and alarms at the panel

GET IT ON Google Play
Search "UEIOT Live"

APPLICATIONS

One logger. 30+ applications.

The same Krionix logger, cloud and app adapt to almost any asset that has a meter or a sensor.

Power and energy

Transformer monitoring
Oil, winding, load, health

Energy monitoring
kWh, demand, PF by feeder

DG set monitoring
Fuel, run hours, load

Solar plant monitoring
Generation and inverter health

Street light monitoring
On/off, faults, energy

Utility dashboard
Power, water and air together

Machines and process

Motor condition
Vibration, temperature, current

VFD monitoring
Speed, load, faults, energy

CNC machines
Run time and utilisation

Conveyors
Speed, jams, motor health

Production lines
Output and downtime

Air compressors
Pressure, load/unload, kW

Water and utilities

Water tanks
Level, pumps, overflow

Water consumption
Flow and usage by zone

Water treatment (WTP)
pH, turbidity, flow, pumps

Sewage treatment (STP)
Blowers, pumps, DO, flow

Diesel pumps
Run hours, pressure, fuel

Compressed-air leaks
Leak load, wasted energy

Safety and environment

Fire pumps
Readiness, pressure, run status

Fire hydrants
Line pressure alarms

Industrial gas
Leak and safe-level alerts

Chemical tanks
Level, temperature, leaks

Corrosion
Pipe and tank trends

Warehouse environment
Temperature and humidity

HVAC, cold chain and AI

HVAC
Chiller, AHU, energy per zone

Refrigeration
Compressor health, temperatures

Cold storage
Room temp, door, power

Boilers
Pressure, temperature, fuel

AI predictive maintenance
Anomalies before failure

Unified operations
All sites on one screen

30+
ready applications on one platform

<3 s
live refresh on dashboard and app

1 logger
reads meters, sensors and PLCs

Your application?
Tell us the asset; we will propose the sensors, logger and dashboard.

How every application works

01 Sensors and meters
Existing meters, CTs, temperature, level, vibration

›

02 Krionix logger
RS485 / Modbus, analog and digital inputs, 4G

›

03 AutoStack™ cloud
Rules, alerts, history and reports

›

04 Dashboard and app
Control room on web, teams on UEIOT Live

WHY KRIONIX

Upgrade the asset. Keep the investment.

	Conventional approach	With Krionix
Finding problems	Periodic rounds, complaints	**Continuous monitoring, automatic alerts**
Maintenance	Fixed schedule or after failure	**Condition-based, guided by readings**
Meters	Replace existing meters	**Retrofit existing meters**
Data	Paper logs, spreadsheets	**One platform with history and APIs**
Planning	Estimated loading	**Measured loading of every asset**
Supply chain	Imported or assembled	**Designed and made in India**

What sets us apart

- Indian OEM, not a trader: hardware, firmware and cloud built in-house
- One platform for transformers, plants, meters, water and sensors
- Retrofit-first design that protects existing investment
- Government-ready multi-level access and audit trail
- Patent-pending retrofit technology
- Local installation and support from Karnataka

Value we deliver

- Fewer failures and breakdowns, caught early
- Shorter outages: crews go straight to the fault
- Lower energy bills and fewer PF penalties
- Maintenance where readings show a need
- Measured data for planning, audits and ESG
- No rip-and-replace of working equipment

<3 s
live refresh on dashboard and app

30+
applications on one platform

99.9%
cloud uptime target

5+ yrs
data history for trends and audits

AES-256
encryption, multi-factor login

100%
designed and made in India

Retrofit first. Replace only where it pays.

We add sensing, communication and intelligence to the assets you already own.



WORKING WITH US

From site survey to live dashboard

A clear, proven path for every project, whether it is a single panel, a plant or a fleet of transformers.

How a project runs

01 Site survey
Assets, meters, CTs and 4G coverage reviewed with your team

02 Proposal
Devices, dashboard and alerts matched to your needs

03 Installation
Licensed team fits devices; most work without shutdown

04 Commissioning
Thresholds set with your engineers; data verified live

05 Training
Dashboard and app training for each user role

06 Support
Alerts, health reports and on-call service

Ways to work with us

Pilot
A few units over 90 days to prove value on your own assets before scaling.

Purchase + subscription
One-time hardware cost with a small monthly platform fee per device.

Managed service
Krionix installs, monitors and reports; you pay for outcomes.

Frequently asked questions

Does THMS change the transformer?
No. The unit mounts beside it and connects through CTs and external sensors.

Does it need our network or IT?
No. Each unit has its own 4G M2M SIM and sends data directly to the platform.

What if the network drops?
The device buffers readings and uploads them when the connection returns.

Can it run on our servers?
Yes. AutoStack™ runs on Krionix cloud or on-premise in your data centre.

Who receives alerts?
The people you nominate, by area and role, on dashboard, app and other channels.

Can it connect to our systems?
Yes. Open REST / MQTT APIs, adapters and scheduled exports.

Who owns the data?
You do. Krionix uses it only to run the service and your reports.

Do you support all of Karnataka?
Yes. Our Harihar-based team installs and services across the state.

Ready to start?

Book a live demo or a site survey: +91 94481 36101 · info@krionix.in

Scan to connect



Krionix™

CONNECTING THE DOTS OF TOMORROW.

GET IN TOUCH

Let's make every asset smart.

Ask us for a live demonstration and a site survey for your network, plant or project.

REGISTERED OFFICE

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Krionix — Connecting the Dots of Tomorrow
Technology partners: Hexitronics Automation LLP · UEIOT

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