

XapSync 4.0

*Powering Predictive Intelligence in
Electric Mobility*

REVOLUTIONIZING EV INTELLIGENCE

At Xaptronics, we're driving the future of electric mobility with smart, AI-powered analytics. XapSync 4.0 is our cutting-edge onboard data analytics system—designed to monitor, analyze, and predict vehicle and battery performance in real time.

Whether you're optimizing fleet efficiency or ensuring vehicle safety, XapSync 4.0 gives you the insights to make informed decisions, fast.

WHAT IS XAPSYNC 4.0?

XapSync 4.0 is an intelligent data analytics system embedded in EVs to:

- Monitor critical battery and vehicle parameters
- Transmit real-time data to the cloud
- Enable predictive and preventive maintenance through AI

Core Capabilities

Battery Monitoring

- Voltage of individual cells
- Charging & discharging currents
- Battery temperature
- State of Charge, State of Health, State of Power

Vehicle Monitoring

- Vehicle speed, error codes via CAN Bus
- Real-time location tracking via 4G modem and GPS

Cloud Integration

- Data sent via IOT protocols using 4G GSM/GPRS
- Real-time visualization and actionable insights on the Xaptronics cloud portal

Salient Features

Safety Protection

- Overcharging, over-discharging
- Over-current, short-circuit
- Overheating detection

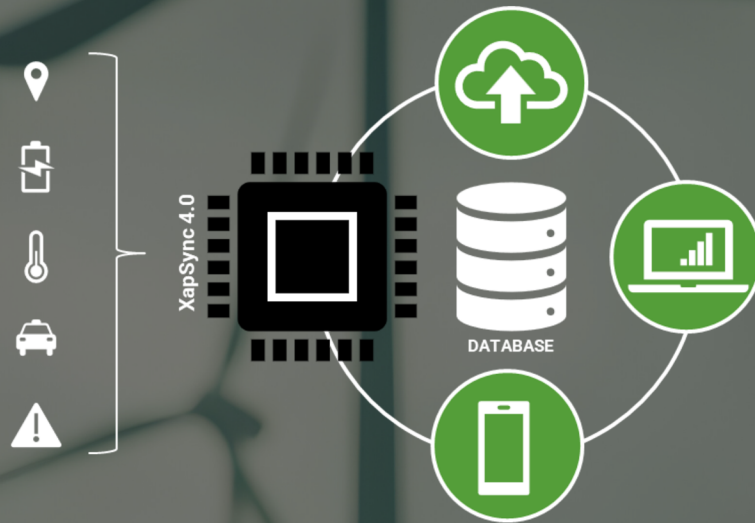
Multi-Protocol Communication

- CAN, SPI, UART, I2C enabled
- Real-time interaction with external systems and cloud control

Live Data Insights

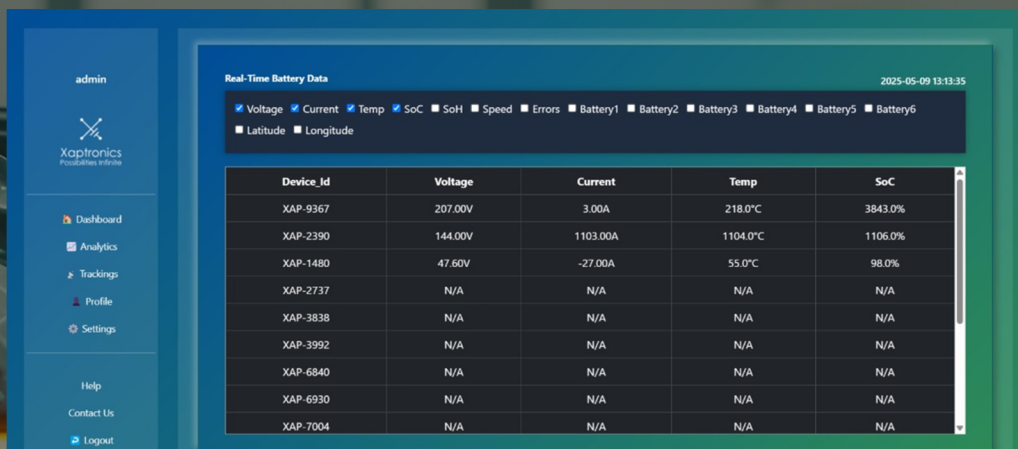
- Voltage | Current | Temperature | SoC | SoH | Speed | Errors | Location
- Full transparency into battery health and vehicle performance

The Parameters Configured Currently



Voltage | Current | Temperature | SoC | SoH | Speed | Errors | Battery Details
Latitude and Longitude Details

XapSync 4.0 Cloud Application



The screenshot shows the 'Real-Time Battery Data' dashboard. The interface includes a sidebar with navigation options: admin, Dashboard, Analytics, Trackings, Profile, Settings, Help, Contact Us, and Logout. The main content area displays a table of battery data for various devices, with columns for Device_Id, Voltage, Current, Temp, and SoC. The data is as of 2025-05-09 13:13:35.

Device_Id	Voltage	Current	Temp	SoC
XAP-9367	207.00V	3.00A	218.0°C	3843.0%
XAP-2390	144.00V	1103.00A	1104.0°C	1106.0%
XAP-1480	47.60V	-27.00A	55.0°C	98.0%
XAP-2737	N/A	N/A	N/A	N/A
XAP-3838	N/A	N/A	N/A	N/A
XAP-3992	N/A	N/A	N/A	N/A
XAP-6840	N/A	N/A	N/A	N/A
XAP-6930	N/A	N/A	N/A	N/A
XAP-7004	N/A	N/A	N/A	N/A

Access a smart, intuitive dashboard to:

- Visualize real-time data
- Set alerts for anomalies
- Enable remote diagnostics and control

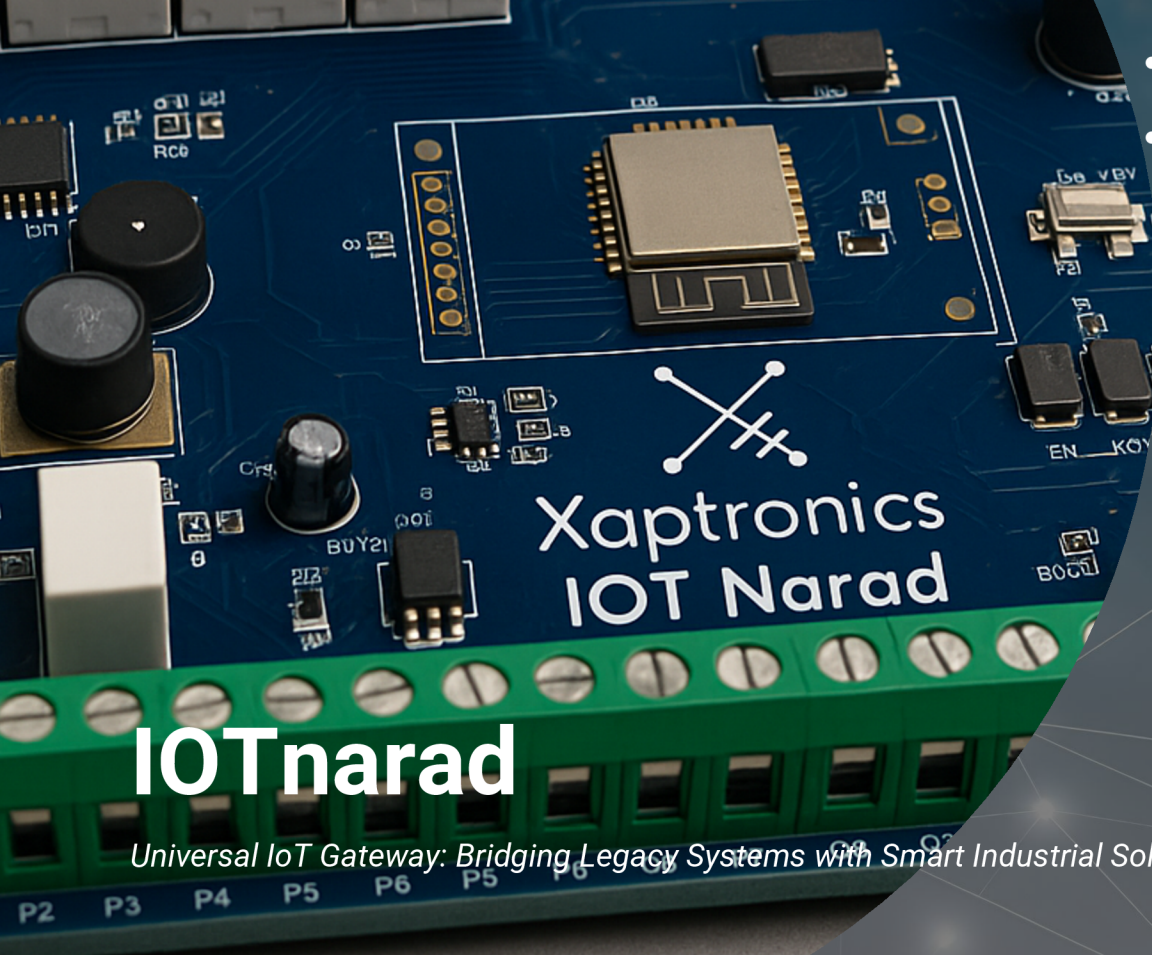
The cloud platform empowers service teams and OEMs to take timely, informed actions.

Contact Us

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Xaptronics
Possibilities Infinite



IOTnarad

Universal IoT Gateway: Bridging Legacy Systems with Smart Industrial Solutions

INTELLIGENT INDUSTRIAL IOT GATEWAY

At Xaptronics, we're transforming industrial operations with smart, connected technology. IOTnarad is our robust, edge-to-cloud IoT gateway that unites legacy systems and modern devices into a single intelligent network. IOTnarad is an intelligent Industrial IoT Gateway designed for the Industry 4.0 era. Designed for scale, speed, and security, IOTnarad enables enterprises to monitor, automate, and optimize operations across sectors—from factories to farmlands.

WHAT DOES IT DO?

IOTnarad empowers your business to:

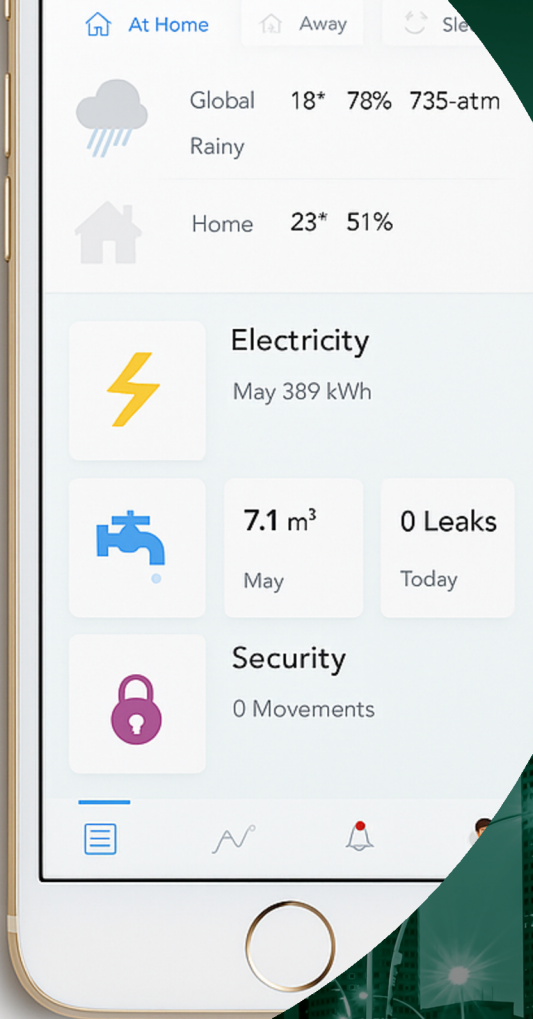
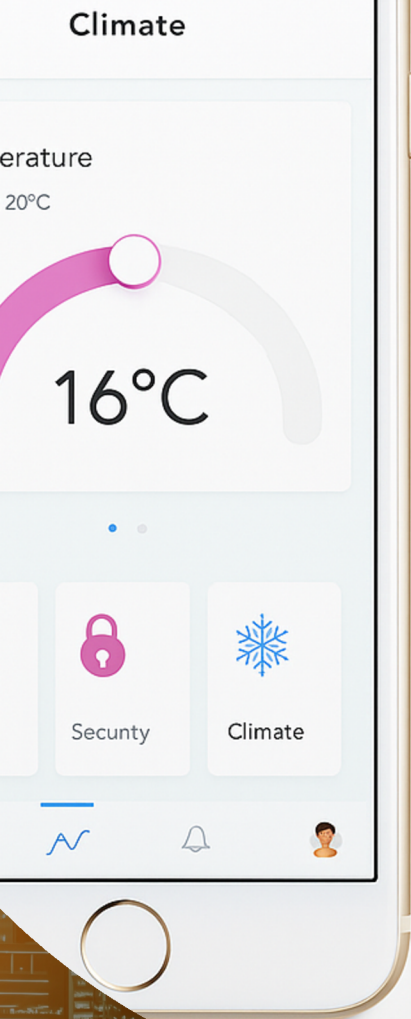
- Connect diverse industrial assets both legacy and modern
- Process data at the edge with advanced compute capabilities
- Transmit securely to the cloud for real-time decision-making

Core Capabilities

- Smart Manufacturing: Integrate PLCs, SCADA, sensors for real-time production insights
- Smart Farming: Monitor soil, weather, and irrigation systems for precision agriculture
- Remote Asset Monitoring: Control pumps, generators, utility meters, and more

Core Features

- Multi-Protocol Support: Modbus, OPC-UA, MQTT, CoAP, HTTP/HTTPS, LoRaWAN, NB-IoT, and more
- Edge & Cloud Ready: Supports AWS, Azure, Google Cloud, and on-prem systems
- Remote Configuration: Central dashboard for managing and updating gateways
- Scalable Architecture: Deploy from a single asset to global operations
- Robust Security: Secure boot, encrypted storage, TLS/DTLS, OTA firmware updates



Technical Specifications

- **Connectivity:** Ethernet, Wi-Fi, Bluetooth, LoRaWAN, NB-IoT
- **Hardware:** Industrial-grade with wide temperature support
- **Security:** Secure boot, TLS/DTLS, encrypted OTA updates
- **Integration:** Seamless with AWS IoT, Azure IoT Hub, Google Cloud IoT, and local servers
- **Protocol Converters:** Customizable for diverse deployments

Live Data & Insights

- Get full visibility into your operations with:
- Sensor readings (temperature, pressure, flow)
- Asset health and usage patterns
- Alert generation and anomaly detection
- Real-time dashboards with actionable insights

Why IoTnarad?

- Rapid Deployment with pre-configured templates
- Universal Compatibility for legacy and modern systems
- Real-time Monitoring, Control, and Optimization
- Future-Ready Architecture for enterprise scalability

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