



RedNeuronLab

# Hive Provisioner™

## Product Brochure

One hive. Every machine. Total control.

### About Hive Provisioner

Hive Provisioner is RedNeuronLab's cloud platform that connects your machines to the cloud and keeps them under your control. Link a Bharat Gateway to the machine's HMI controller, and live data appears on your dashboard within minutes. Set up devices remotely, and give your team and your customers access through simple user roles. Built for OEMs, dealers and end users, it turns every machine into a connected, service-ready asset.

<https://hiveprovisioner.redneuronlab.in>



# Inside this brochure

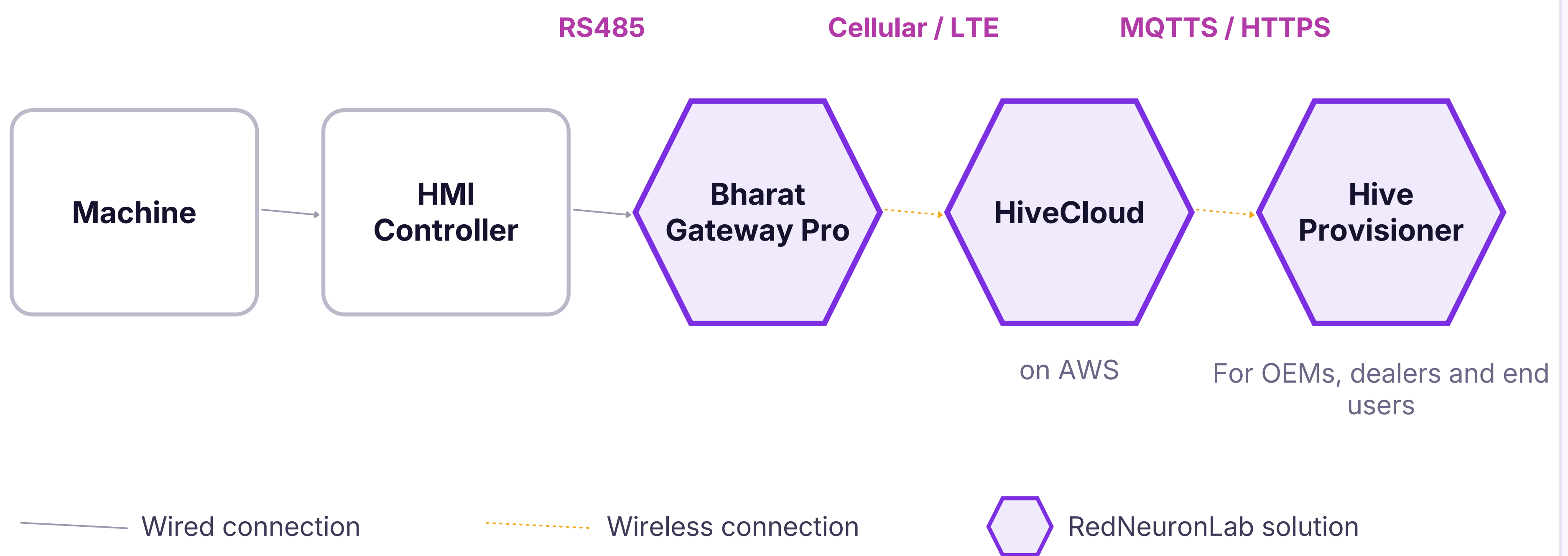
| Page | Section                         | What you will learn                                             |
|------|---------------------------------|-----------------------------------------------------------------|
| 3    | The Hive Provisioner Ecosystem  | How your device data travels from the machine to your screen    |
| 4    | Hardware Specifications         | Bharat Gateway Pro and Bharat Gateway Lite, side by side        |
| 5    | Platform: Onboarding and Access | Register, add your machines and give your team access           |
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# The Hive Provisioner Ecosystem

From your machine to your screen, through one connected hive.

Hive Cloud turns machine data into decisions. The machine's HMI controller talks to a Bharat Gateway, the gateway sends data to the cloud, and you see everything in Hive Provisioner.

## Machine data reaches your screen in four simple hops



Machine to HiveProvisioner data flow · 5 stages, wired and wireless links

1

### Connect.

The Bharat Gateway reads the machine's HMI controller over RS485.

2

### Send.

Data travels to HiveCloud over cellular / LTE.

3

### Control.

Hive Provisioner gives OEMs, dealers and end users one place to monitor, configure and report.

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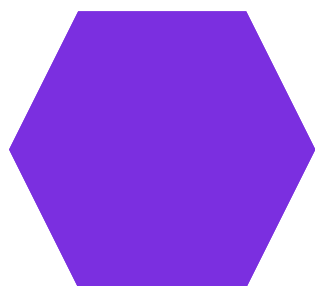
### Secure by design.

Data moves over secure MQTTS and HTTPS.

# Hardware Specifications

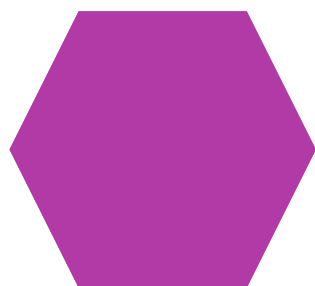
Rugged gateways that bring any machine online.

**Built into both:** 4G LTE with 2G fallback, Wi-Fi and Bluetooth 5, GPS location, RS485 Modbus to link with the machine's HMI controller, surge and reverse-polarity protection, and industrial-grade operation from -40 °C to +85 °C.



## Bharat Gateway Pro:

built for machines with many signals to track. It offers more inputs, more memory and a wider power range.



## Bharat Gateway Lite:

compact and light, ideal for smaller machines with fewer signals.

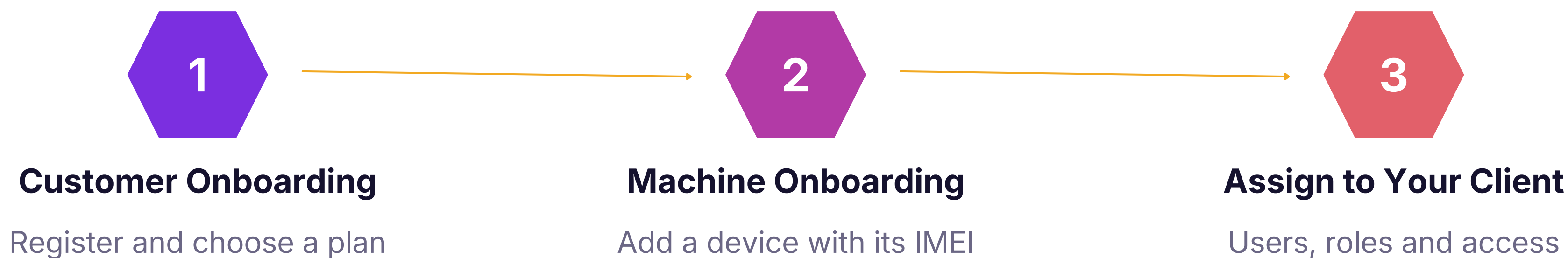
## Choose your gateway

| Feature         | Bharat Gateway Pro            | Bharat Gateway Lite            |
|-----------------|-------------------------------|--------------------------------|
| Processor       | Dual processor                | Single processor               |
| Digital I/O     | 18 inputs                     | 7 inputs/outputs               |
| Analog inputs   | 12 inputs                     | 3 inputs                       |
| Memory          | 128 MB storage                | Built-in memory                |
| Power input     | 9–48 VDC                      | 9–24 VDC                       |
| Size and weight | 152.1 × 91.4 × 4.5 mm · 200 g | 106.2 × 87.7 × 54.3 mm · 100 g |

# Platform: Customer and Machine Onboarding

From sign-up to live machine data in three simple stages.

## Your journey on Hive Provisioner

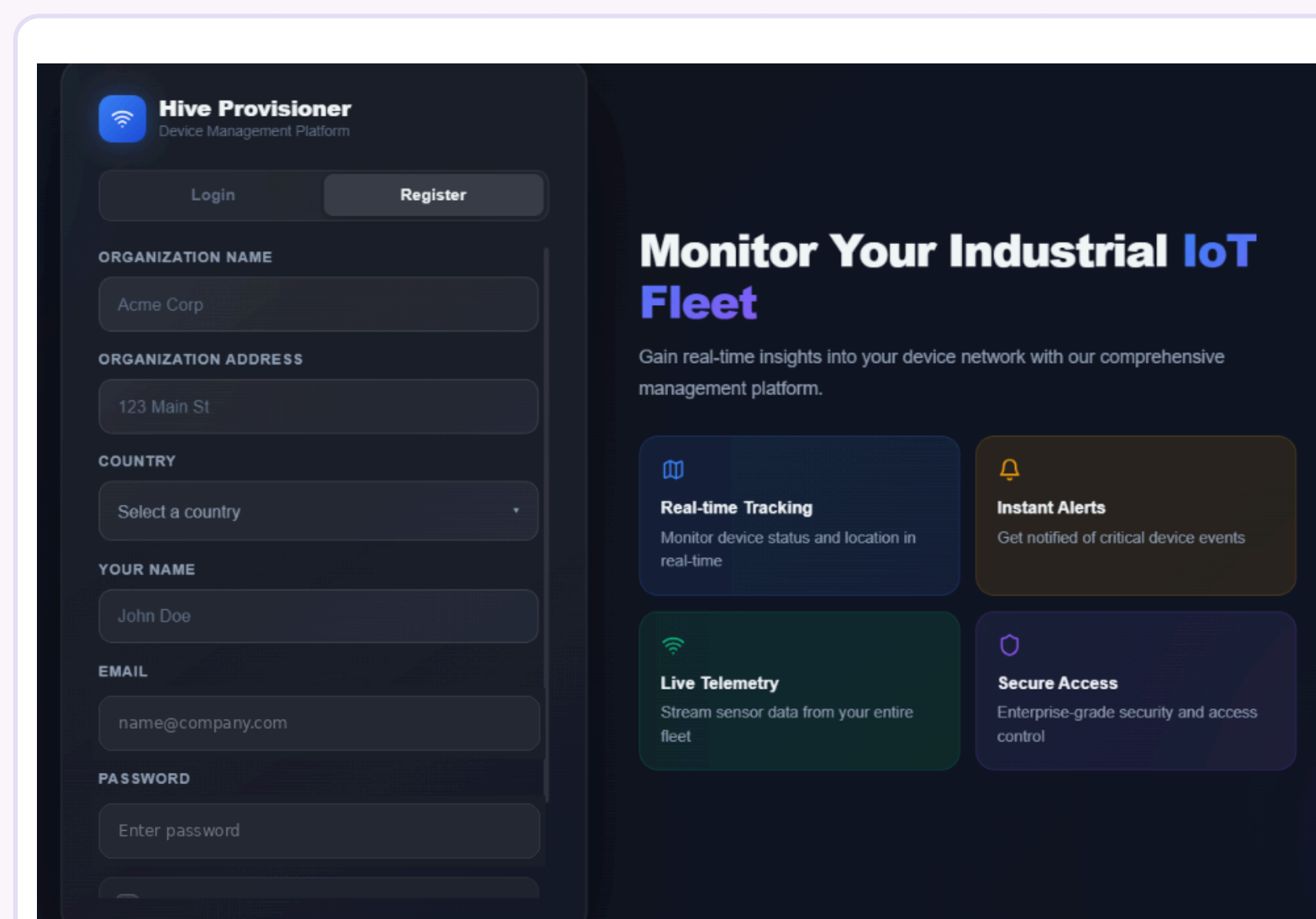


Your journey on Hive Provisioner · 3 stages

## 1. Customer Onboarding

Create your organisation's account and choose a plan.

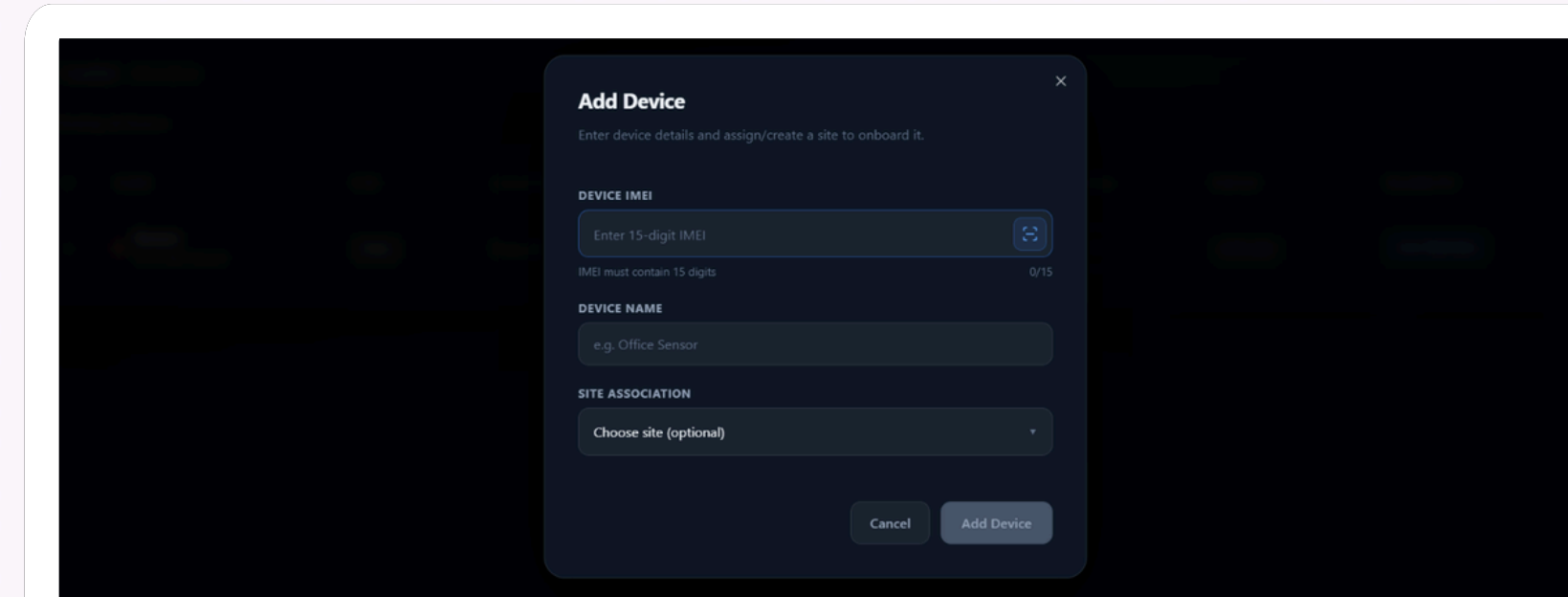
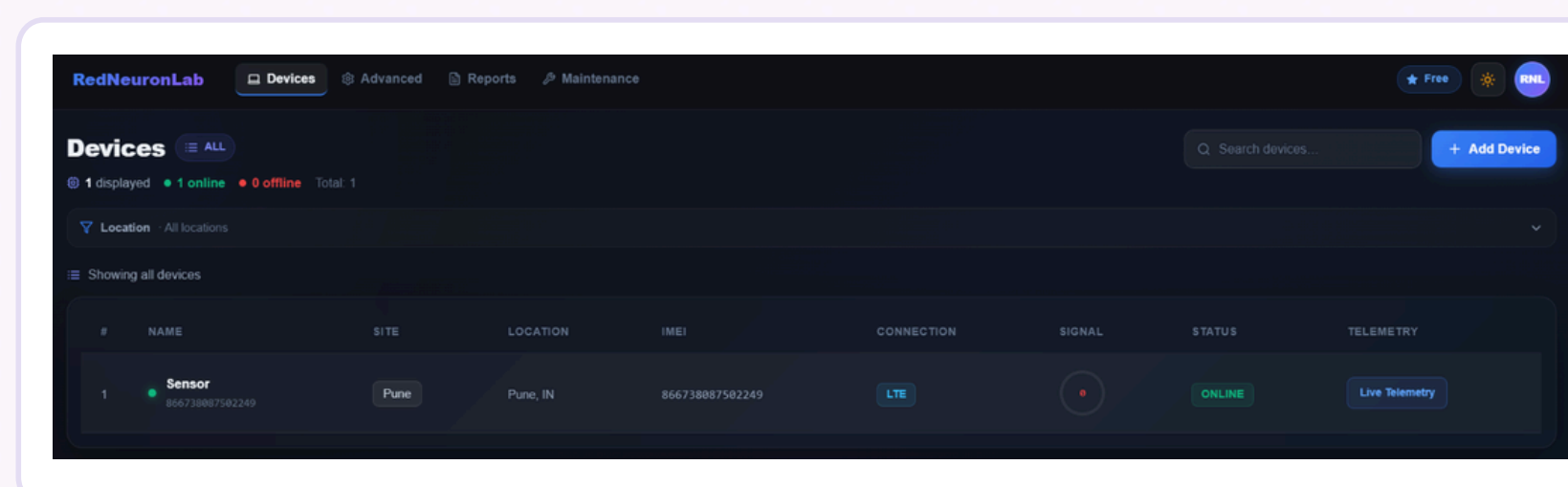
- **Register as an OEM admin.** Sign up with your organisation's details and become its administrator.
- **Choose your plan.** Open Subscription and select the plan that suits your business.



## 2. Machine Onboarding

Bring a machine online with a single number.

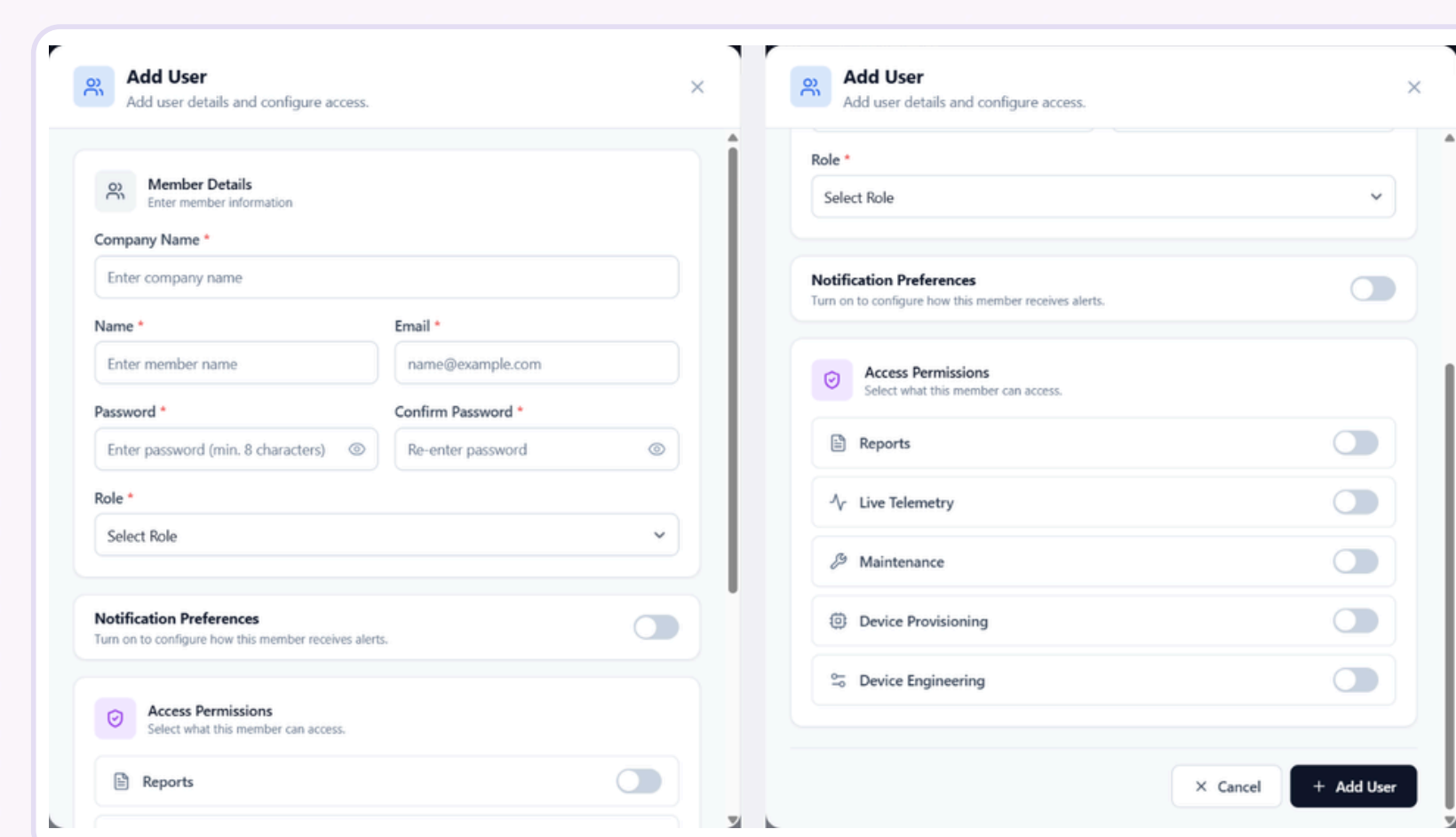
- **Add a device.** Add your Bharat Gateway to the platform.
- **Enter the IMEI number.** Register the gateway using its IMEI, and your machine data starts to flow.
- **Go live.** Your device appears in the device list with its status and signal, and a one-click link to live telemetry.



## 3. Assign the Machine to Your Client

Give every client the right view of their machines.

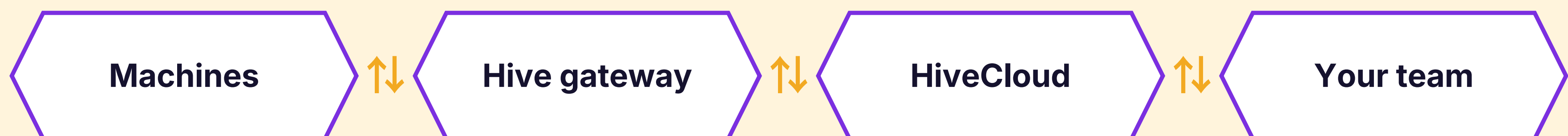
- **Add a user.** Invite a member by entering their name and email.
- **Choose a role.** Select Tenant or Admin.
- **Set access permissions.** Switch on what the member can see: Reports, Live Telemetry, Maintenance, Device Provisioning and Device Engineering.



# Platform Features

Everything you need to connect, control and care for every machine.

One platform takes you from the machine on the floor to the service decision on your desk.



*Machines → Hive gateway → HiveCloud → Your team. Data flows up. Commands, configuration and firmware flow back down.*

1

## Live Fleet Dashboard

*See your whole fleet at a glance.*

- **Fleet summary.** Track total, online and offline devices in real time.
- **Device map.** View every device by location, with clear online and offline markers.
- **Alert centre.** Catch critical events from the last 60 minutes in one place.

2

## Device Overview

*Know the health of every gateway.*

- **One simple list.** See each device's name, site, location, IMEI, connection, signal and status in a single table, with search and location filters.
- **Live telemetry.** Open a device's live data in one click.
- **Health at a glance.** Check signal strength, SIM card details and power status for any device.

3

## Remote Configuration

*Set up devices from your desk.*

- **Inputs and outputs.** Set each digital line as an input or an output, and switch analog channels on or off.
- **Modbus setup.** Choose baud rate, data bits, parity, stop bits and polling, and define the queries that read data from your machine's controller.
- **Cloud connection.** Send data to HiveCloud or to your own broker, and set how often it is sent.

4

## Smart Provisioning

*Define a component once and reuse it everywhere.*

- **Reusable definitions.** Describe a sensor or unit with its inputs, outputs and steps, then import, export and share it across your organisation.
- **Live values.** Provision a component on a device and watch values such as temperature and humidity refresh every 3 seconds.
- **Alerts and control.** Add alerts, and edit, hide or deactivate any component whenever you need.

5

## Probe and Control

*Manage devices remotely and securely.*

- **Device commands.** Reboot a device, or erase its configuration or memory, with commands sent directly over MQTT.
- **On-demand data.** Use Probe to request the latest data from a device whenever you need it.

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## Advanced OTA Updates

*Push firmware updates to your devices over the air.*

- **Configure once.** Name the update, choose the device and model, select the OTA type and upload the firmware file.
- **Save and Apply.** Send the update to the device in one click, with no site visit.
- **Update History.** Track every update by name, device IMEI, model, type and status.

7

## Reports

*Compare signals and spot trends.*

- **Quick time ranges.** Choose 1 hour, 24 hours, 7 days or 30 days, or set a custom date and time.
- **Side-by-side charts.** Pick a device, a component and a signal, then add several charts to compare them.

8

## Maintenance

*Turn machine data into service decisions.*

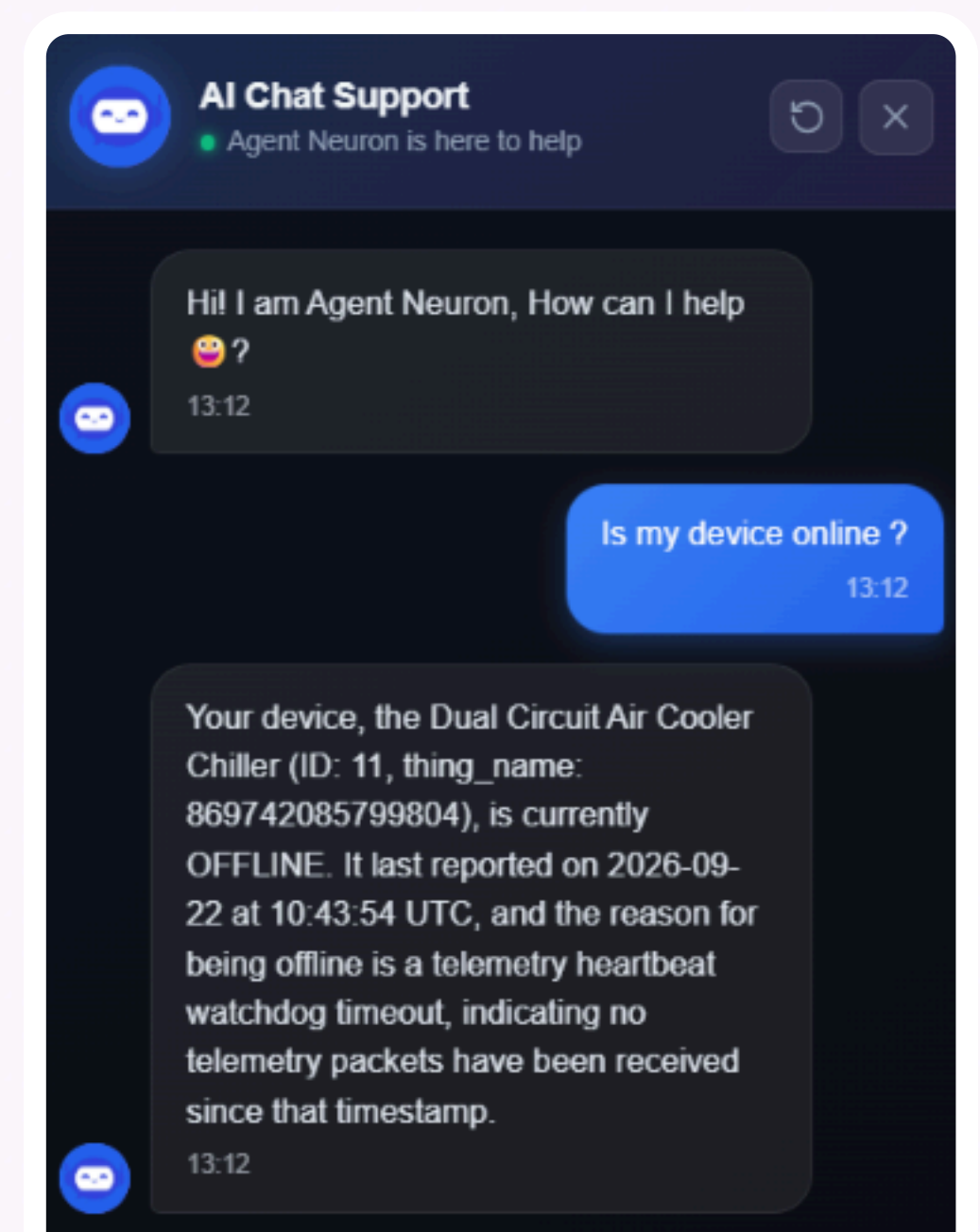
- **Company snapshot.** See machines, components, monitored items and projected parts cost together.
- **Machine health.** Check each machine's status, plus monitoring, health, forecast and part cost for every component.
- **Service made easy.** View Annual Maintenance Contract (AMC) cover, add a contract, edit a monitoring rule or raise a service ticket in one click.

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## Agent Neuron (Chatbot)

*Your AI assistant for every machine.*

- **Ask in plain language.** Type a question like "Is my device online?" and Agent Neuron answers in seconds, with no menus or reports to dig through.
- **Clear, detailed answers.** Get a device's name, ID, current status, last reported time and the reason it went offline, all in one reply
- **Faster troubleshooting.** Ask follow-up questions to dig into a device's history and move from problem to fix sooner.



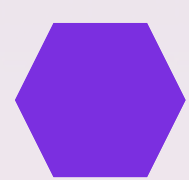
# Join the hive.

Bring every machine, every site and every signal into one place.

Power on, sign in, register your device and go live.

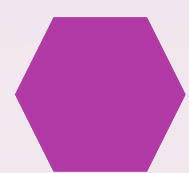
## Ready to see it in action?

Ask the RedNeuronLab team for a walkthrough of the platform.



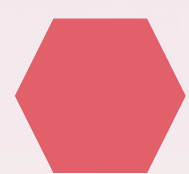
**Web:**

<https://hiveprovisioner.redneuronlab.in>



**Email:**

[contact@redneuronlab.in](mailto:contact@redneuronlab.in)



**Address:**

iStart Nest Incubation Center, Vikramaditya  
Nagar, Surya Colony, Jodhpur, Rajasthan 342011



RedNeuronLab