

SMART AGRICULTURE

IoT enabled Agri Farms



Agri-Smart IoT Devices & Dashboard



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OUR SOLUTION

The solution focuses on collecting and visualizing data acquired from several IoT integrated sensors deployed in a crop health management solution as plants need to be protected from harmful weather conditions when they are still delicate and particularly prone to diseases.



Benefits of Smart Agriculture Practices

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Increase In Yield	Reduces Cost	Reduces Human Error	Data Collection & Analysis
Precision agriculture optimize planting, irrigation, and crop scouting.	Provides farmers real-time information about their crops, soils, and market prices helping in reduced cost & maximized gain.	Ensures that crops are planted correctly and at the correct depth, preventing seed losses.	Collect data about crops, soils, and weather conditions using IoT devices which can be used to improve farm management decisions.

OUR DEVICES

End Sensor Nodes - LoRa



Features

- LoRa/2G/4G -LTE Transmitter Module
- Frequency 803-930 MHz
- NPK, EC, pH, Temp, Moisture Soil Sensor
- Ambient Temp & Humidity Sensing
- Industrial Grade IP 68 /65 Sensor
- Low power consumption model
- Solar Powered with battery backup
- Data Storage and up to 2 years Data Retention
- Soil Quality/Crop Growth Analysis
- Irrigation Alerts



Features

- 8 Channel LoRa Receiver
- Frequency 803-930 MHz
- 2G/4G -LTE/Wi-Fi to Cloud
- Capable of receiving samples from multiple end nodes
- Industrial Grade IP65
- Input 5-12V, 2A DC Adapter
- Operating Temp -20 to +65 C
- Data Storage and up to 2 years Data Retention

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ARCHITECTURE



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