



ADAPTIVE AGROTECH

Technology Adaptation for Food Security

ENGINEERED IN GERMANY
| TRUSTED BY FARMERS,
RESEARCHERS, AND AGRITECH



SUSTAINABLE



SMART IoT



RELIABLE



DATA DRIVEN



INNOVATIVE



SMART WIRELESS SENSING NODES FOR DIGITAL AGRICULTURE

Advanced multi interface LoRaWAN sensor nodes for indoor farming and open-field deployments.
IP67 rated, reliable wireless data transmission with minimal infrastructure.



KEY FEATURES

- ✓ LoRaWAN EU868 (868 MHz)
- ✓ Dual MCU: STM32 + ESP32
- ✓ Interfaces: Analog, Digital, I²C, UART, SPI, CANBUS
- ✓ RTC + onboard SD card
- ✓ OTA firmware & custom development
- ✓ Robotics & machinery integration
- ✓ Battery life > 18 months



USE-CASES

- 🌱 Soil (moisture, temperature, pH)
- 🌡️ Microclimate (Air T, RH, VPD), and wind speed
- 📍 GPS & mobile scouting robots
- 💧 Smart Irrigation and Fertilizer Management
- 🐄 Livestock monitoring: CO₂, NH₃, light
- 📋 Field trials and research data acquisition

DESIGNED FOR REAL-WORLD DEPLOYMENT



Modular and scalable: support operational requirements and system expansion



Battery and solar-powered operation for off-grid deployments



Customizable dashboard and API integration to view, manage, and export data



Data analysis and reporting support



Customized enclosure for indoor and outdoor



Two-Year warranty and technical support

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SOLAR POWERED



MODULAR &
SCALABLE DESIGN



LONG-RANGE LoRaWAN
CONNECTIVITY



RELIABLE DATA FOR
BETTER DECISIONS

SMART DATA.
BETTER DECISIONS.
HIGHER YIELDS.



LEARN MORE

RELIABLE SENSING. SMART CONNECTIVITY. SUSTAINABLE AGRICULTURE.