



1. Product Overview

A development and learning platform designed for academic use to study and implement Internet of Things (IoT) concepts. The system allows learners to configure, simulate, and deploy IoT networks using various sensors, actuators, and communication modules. It provides hands-on experience in building smart systems through a user-friendly builder interface and multiple programming options.

2. Features

- Academic-oriented IoT development and simulation platform
- Configuration and testing of IoT networks with multiple sensors and actuators
- Supports common environmental sensors (temperature, humidity, light, etc.)
- Includes outputs for actuators such as motors, LEDs, and relays
- Multi-network communication capability: Ethernet, Wi-Fi, and optionally Bluetooth/cellular
- Dedicated software application for configuration and real-time monitoring
- Graphical "builder" programming mode for easy project creation
- Supports coding in C/C++ and Python for advanced development
- Cloud-based data transmission and monitoring
- Dashboard for visualization of real-time parameters
- Logical control and device-level automation

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Suitable for training in IoT design, sensor-actuator integration, smart monitoring, and networked automation

3. Technical Specifications

Parameter	Specification
Input Interfaces	Analog & digital sensors (temperature, humidity, light, etc.)
Output Interfaces	Actuators: motors, LEDs, relays
Connectivity	Ethernet, Wi-Fi (optional: Bluetooth / cellular)
Software Compatibility	Dedicated application for configuration & real-time monitoring
Programming Modes	Graphical "builder" interface; C/C++ & Python support
Cloud Functions	Cloud data transmission and monitoring
Dashboard	Real-time parameter visualization
Automation	Logical control & device-level automation
Educational Applications	IoT architecture, sensor-actuator integration, monitoring & automation

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