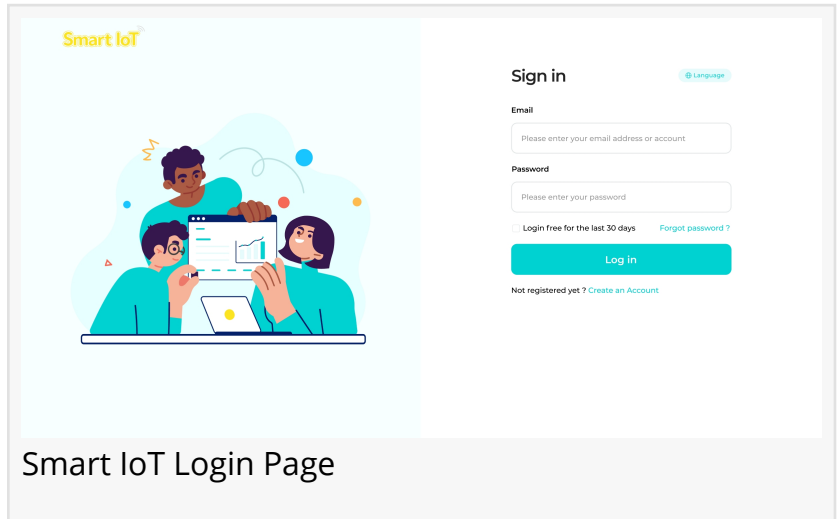# ELECFREAKS Launches Smart IoT Platform: A Child-Friendly, School-Ready IoT Solution for Education

Platform Simplifies IoT Learning with Teacher Management System, Multi-Data Monitoring, and Enhanced User Experience.

HONG KONG, June 21, 2025 /EINPresswire.com/ -- ELECFREAKS today announced the official release of Smart IoT, an innovative Internet of Things (IoT) platform specifically designed for educational environments. The platform addresses the complexity barriers that have

Smart IoT Login Page

traditionally made IoT learning challenging for young students, offering a streamlined, intuitive interface that enables micro:bit users to connect to IoT services in just three minutes.

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> Our goal was to create a solution that empowers teachers to manage classroom IoT projects effortlessly while providing students with an engaging, frustration-free learning experience."
>
> *Song, product manager of ELECFREAKS*

Designed for Education: Comprehensive Teacher Management System

"Traditional IoT platforms like ThingSpeak, while powerful, often present a certain extent hurdles for younger learners and educators," said Song, product manager from ELECFREAKS. "With Smart IoT, we've reimagined what an educational IoT platform should be. Our goal was to create a solution that empowers teachers to manage classroom IoT projects effortlessly while providing students with an engaging, frustration-free learning experience."
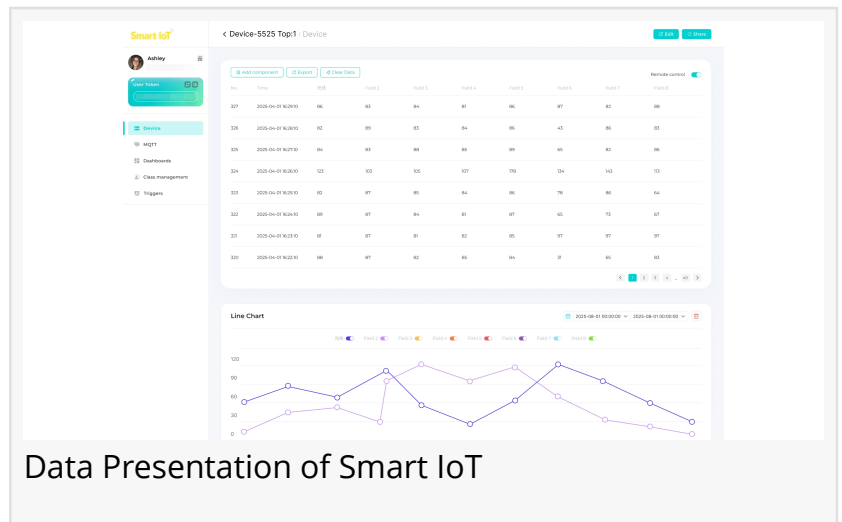
The platform features a robust teacher management system that streamlines classroom administration. Teachers can create virtual classrooms, automatically generate unique student accounts, and manage multiple students from a single dashboard. The system eliminates the need for individual student registrations, allowing educators to focus on teaching rather than administrative tasks.

Empowering Young Learners: Enhanced Capabilities and User Experience

Smart IoT offers significant advantages tailored for K12 education. It supports simultaneous monitoring of up to 8 different data points, enabling more complex and realistic IoT projects. The platform's child-friendly interface removes technical barriers, making it accessible to students as young as 7 years old.

Data Presentation of Smart IoT

The platform is completely free to use, with no hidden costs or premium tiers, ensuring equal access to IoT education for all schools and students. This commitment to accessibility extends to the platform's multi-language support, making it suitable for international educational environments.

Advanced Features for Enhanced Learning

Smart IoT introduces several innovative features designed to enrich the learning experience:
· Upgraded UI Design: The platform features vibrant, intuitive visual elements that engage young learners while maintaining professional functionality
· Secure Chart Sharing: Students and teachers can share their data visualizations through unique, secure links, facilitating collaboration while maintaining privacy
· Customizable Chart Components: Users can personalize their dashboards with optional module layouts and styling options
· Data Filtering and Export: Advanced filtering options allow users to analyze specific time ranges and export data for further analysis

Future-Ready Platform with Upcoming Features

ELECFREAKS has announced a roadmap of upcoming features that will further enhance the platform's capabilities. Starting mid-June, Smart IoT will support MQTT protocol, enabling integration with a broader range of IoT devices and services. Additionally, a visual dashboard feature is in development, which will allow users to create fully customizable displays with adjustable components, including gauges, charts, and indicators.

Direct Integration with ELECFREAKS IoT Kits

Smart IoT is designed to work seamlessly with ELECFREAKS' IoT-related educational kits, including the Smart Science IoT Kit. The platform connection can be easily established through the IoT extension in Microsoft MakeCode, allowing students to upload sensor data, control devices remotely, and create interactive IoT projects without complex coding requirements.

Implementation and Accessibility

The Smart IoT platform supports any micro:bit-based IoT project using ELECFREAKS' IoT:bit module. The platform requires only a 2.4GHz Wi-Fi connection and can be programmed using either block-based coding in MakeCode or Python for more advanced users.
Educational institutions, teachers, and students can begin using Smart IoT immediately by registering for a free account. The platform's comprehensive documentation and sample projects ensure a smooth onboarding experience for users of all skill levels.

About ELECFREAKS
ELECFREAKS is a technology company dedicated to providing innovative and high-quality electronic modules, expansion boards, and STEM education solutions. With a strong focus on open-source hardware and fostering a global community of makers and learners, ELECFREAKS aims to make STEM education accessible and engaging for everyone.

Nelson Huang
ELECFREAKS
+86 137 1391 9809
email us here
Visit us on social media:
Instagram
Facebook
YouTube
TikTok
X