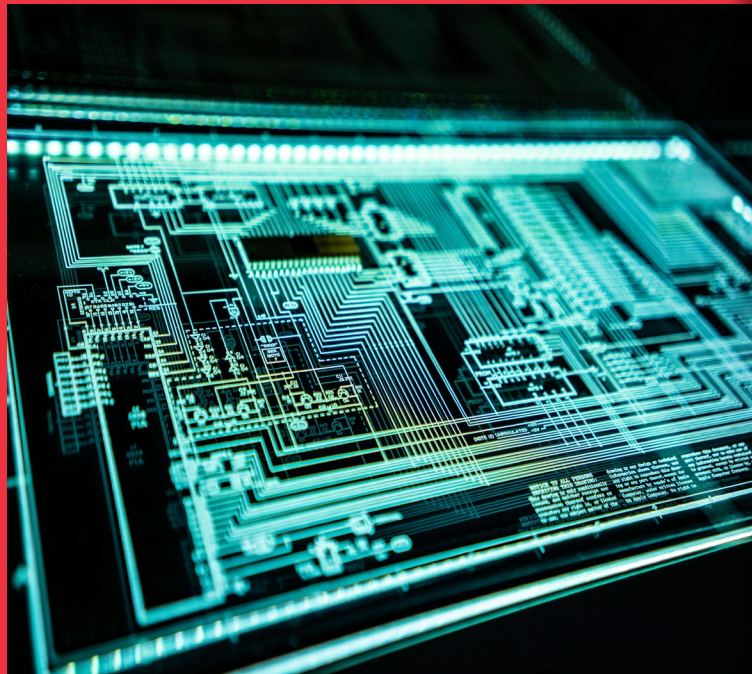




AIoT Platform-Lite 2.0: A Rapidly Deployable and Highly Versatile IoT Platform to Facilitate AIoT Platform Deployment as a Service and Seamless System Integration

SP Singapore
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Technology Licensing Opportunity

Technology Overview

Small and medium-sized enterprises (SMEs) face significant barriers when adopting IoT technologies, including high licensing costs, complex deployment requirements, and concerns about data ownership when using vendor-hosted platforms. Traditional AIoT solutions often require technical expertise for installation and create dependency on vendor infrastructure, making them challenging and expensive for SMEs to implement.

AIoT Platform-Lite 2.0 is designed to overcome these obstacles by providing a simplified, cost-effective IoT platform that can be rapidly deployed on the client's own cloud infrastructure. The technology uses automated deployment workflows and open communication protocols to enable non-technical users to set up and manage their IoT systems independently.

This approach delivers essential AIoT capabilities while ensuring complete data ownership, reducing costs, and eliminating vendor lock-in, making advanced IoT technology accessible to businesses of all sizes in today's increasingly digital economy.

Potential Applications

This technology can be applied to diverse business environments where organisations require flexible, secure, and cost-effective IoT deployment solutions.

- Small and Medium Enterprise Digitalisation
- Data-Sensitive Industries
- System Integration Projects

Commercialization / R&D Opportunities

- ✓ Ready for commercialization
- ✓ Looking collaborators for further development / to develop new applications
- ✓ Available for licensing
- ✓ Accepting business plans from interested parties

Intellectual Property -

- *Know-How*

Technology Features & Specifications

- **Data Ownership Compliance:** Platform operates entirely on client infrastructure with all data stored locally, ensuring complete control without routing through vendor resources.
- **Cost Reduction:** Lower subscription and licensing fees as vendors don't maintain client infrastructure, with automated deployment reducing setup costs through simple web interface operation.
- **Easy Tracking:** Deployment logs automatically track cloud resources used and identify users who initiated each deployment, providing transparent cost control and accountability.
- **Seamless System Integration:** Open communication protocol enables easy connection with external systems through a web interface for configuring alert triggers and notifications.
- **Enhanced Performance:** Dedicated client infrastructure resources improve alert notification capacity and reduce latency compared to shared vendor platforms.
- **Flexible Reliability:** Choose the right balance of availability and affordability whether it is on-premises or cloud-based. This approach combines practical redundancy and automated recovery to keep costs low while ensuring resilience.

Unique Value Proposition

- According to Singapore Business Federation research, 94% of businesses recognise digitalisation's importance and identify IoT as a key investment technology. However, 47% of SMEs cite high licensing payments and 44% cite staff upskilling costs as major adoption barriers. This platform directly addresses both concerns by offering core AIoT features at reduced costs while requiring no technical expertise for deployment.
- Traditional vendor-hosted platforms create complications through vendor lock-in situations that make switching providers or terminating services difficult, often raising security concerns about data stored on vendor infrastructure after service termination. This solution eliminates these risks by operating entirely on client infrastructure, ensuring all data remains under complete client control throughout the service lifecycle.
- System compatibility issues complicate integration with third-party systems due to proprietary technologies and lack of standardisation, forcing clients to pay additional development costs for each integration. The open communication protocol eliminates these expenses by enabling seamless integration with external systems through standardised trigger configurations, reducing both complexity and costs for businesses.

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