

## Record-Breaking Delivery in Penang's First Full-Scale DC: From Brownfield to Mission Critical Data Hall in 2.5 Months

The Fortune 500 semi-conductor specialist urgently required a data hall; Open DC's Understand-Customer-First policy once again exceeded customer experience.



### Client Overview

A Fortune 500 semiconductor manufacturer, valued at over USD 32.7 billion, operates across more than 20 international offices. Renowned for its innovation leadership and product excellence, the company manufactures high-performance semiconductors that power the world's growing AI and digital transformation ecosystem. With Research and Development (R&D) forming the backbone of its corporate strategy, nearly 25% of its annual revenue is dedicated to advancing next-generation technologies and securing its extensive portfolio of patents. To support this innovation agenda, the company required a secure, high-performance infrastructure capabilities of enabling real-time collaboration, efficient data exchange and global R&D integration — all within a compressed project timeline.

### Business Challenge

As the company expanded its regional R&D capabilities, it required an **immediate data centre space and power to meet demand from its customers**. This site functions as a centralized and highly secure hub for its research teams — a facility that could bring together talent, innovation, and engineering excellence under one roof. Key requirements included:

- A dedicated R&D data centre environment with an integrated engineering lab and workspace.
- Operational space; capable of housing up to 200 server racks.
- Accelerated site deployment with target completion of 12 months
- Comprehensive security and compliance to safeguard sensitive IP and proprietary research data.

The challenge demanded a trusted infrastructure partner with proven capability to deliver mission-critical facilities; without compromising on quality, compliance, or delivery speed.

## Expertise and Solution Delivery

Open DC; recognized for its deep expertise in enterprise-grade data centre solutions were appointed to deliver the client's stringent requirements. The holistic partnership ecosystem, world-class engineering with infrastructure specialist, were entrusted to deliver a turnkey solution.

- ▶ Meticulously designed the purpose-built 2MW data hall and 40,000sqft facility specifically for its R&D operations engineering hub.
- ▶ Dedicated and innovative workspace to promote collaboration and communication amongst the department.
- ▶ To align with the compliance and sustainability aspect of Tier-compliant infrastructure, built to meet the highest standards of uptime, energy efficiency, and scalability.
- ▶ Security excellence 24/7 Security Operations Centre (SOC) with six layers of protection, ensuring full compliance and proactive threat monitoring.
- ▶ Regulatory and operational alignment with global data protection and safety standards.
- ▶ Dedicated professional engineers to mitigate any risks during deployment.



## Benefit and Outcomes

The project achieved outstanding operational and delivery outcomes, surpassing expectations on every front.



### Site Selection and Transformation

Exceeded the expectation in site selection and transformed the site to be a secured and productive DC site. It was completed in just 2.5 months; significantly faster than the 12-month original target.



### Security

24/7 proactive monitoring by onsite engineering team and continuous SOC oversight. Daily site inspections conducted twice per day to pre-empt potential faults before customer impact.



### Compliance, Sustainability and Audit Reporting

100% compliant; and aligned with the perimeters of guidelines.

### Capacity to Scale

Not only overdelivered power capacity, but also provided the ability to scale in the next 3-5 years.



### Infrastructure

Future-ready DC and innovative engineering hub; projects were delivered on time by 98.2% and regional strategy Goal Achievement Rate improved by 37%.



### Customer's Quote

"The **understand-customers-first** policy by Open DC and the unwavering commitment stands as a benchmark for speed, precision and reliability in data centre delivery. This empowers our global teams to collaborate securely, innovate faster, and protect mission-critical intellectual property. We trusted Open DC in our bandwagon as the supreme semiconductor manufacturer with future-ready innovation R&D. Their deliverables have demonstrated proactive collaboration and client-first delivery rapid turnaround reinforced. This is truly; Pay Local, Get Global Results"

**Senior VP for Infrastructure and Operations, APAC and Japan Regions.**

## About Open DC

Empowering Southeast Asia's Digital Future

Open DC, a wholly-owned subsidiary of Extreme Broadband Sdn Bhd, principally engaged in providing a full range of premium services in our connectivity-rich data centres. We are also home to DECIX-JBIX Internet Exchange (IX), a partnership synergy between Malaysia's second IX and the world's leading IX to accelerate the development of connectivity hubs in Malaysia.

### DC Locations

- **Cyberjaya:** CJI
- **Johor:** JB1 Menara MSC Cyberport | JB2 Menara Ansar
- **Kedah:** D8-I Delapan
- **Penang:** PE1 Menara Suntech | PE2 Bayan Lepas



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