



KVH Tokyo Data Center 2 (TDC2)

A State-of-the-Art Facility in Your Ideal Data Center Location

Service Overview

KVH Tokyo Data Center 2 (KVH TDC2) is one of the most secure, high-specification data centers in Japan. By adopting the latest facilities that enable optimal energy savings, KVH TDC2 provides a high-density computing environment that meets customer demands for efficient use of electrical power and cooling facilities, and generates an annual PUE of 1.5 or less. Moreover, KVH TDC2 incorporates advanced security services with high-performance network connectivity and extendibility that comply to recognized international standards, including ISMS/ISO27001, SSAE16 Type II¹ certifications and FISC² guidelines and provides flexible solutions to businesses looking to thrive in the fast-moving and constantly evolving financial market.

KVH TDC2 is situated in Inzai city, Chiba, a low-earthquake risk location just 40 minutes from Tokyo. The facility has full seismic isolation with a very low probable maximum loss (PML) rating of 2.6%, one of the lowest of any building in Japan. Over 600 financial services customers, including the major Japanese exchanges, trust KVH to deliver their network and data center services.

At KVH TDC2, we offer a range of solutions that are tailored to meet each customer's needs. The Turnkey Data Center Solution is ideal if you need dedicated halls or 900kW or above in power. Otherwise, for smaller power increments, the Premium Co-location Solution is available.

KVH TDC2 has expansion capacity for another three data centers on the same site. Our phased approach to construction enables us to incorporate the latest cooling and green technologies as they evolve.

Latest Server and Computing Technologies

Unrivalled power and cooling capabilities in Japan with the latest technologies to support high-power densities

Highly Secure and Low-Risk Location

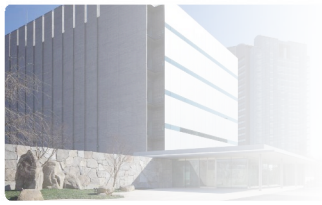
High-Specification Infrastructure Managed by Experts

Operation support is based on ITIL[®]v3³ standards and is provided in both English and Japanese on a 24x7 basis, including remote hands and incident correspondence

Customized Solutions to Suit Your Needs

Choice of turnkey or premium colocation solutions, complemented by a suite of operational and managed services tailored to your needs





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KVH TDC2 Specifications

Facilities and Operation

Construction	<ul style="list-style-type: none"> • Six-storey reinforced concrete • Full seismic isolation to withstand up to an intensity 7 earthquake on the Japanese scale (JMA) • Low PML rating of 2.6%
IT Space	<ul style="list-style-type: none"> • 4,000 m² of IT space for cabinets (4,000 m² x 4 floors) • Turnkey suites sized at 460 m² or Premium Colocation Solution suites sized at 1,000 m²
Connectivity	<ul style="list-style-type: none"> • High-performance connectivity using KVH's resilient, low-latency backbone • Multi-carrier connectivity also available • Diverse routing into the facility and to each data hall
Management and monitoring	<ul style="list-style-type: none"> • Bilingual operations staff on site 24 x 7 • Active monitoring and maintenance of all equipment

Power and UPS

Power to site	<ul style="list-style-type: none"> • TEPCO 66kV loop configuration (Active / Active) • 2 x 15MVA power supply to site
UPS	<ul style="list-style-type: none"> • Block redundant or 2N configuration • Dedicated infrastructure per server suite (Wholesale)
Standby generators	<ul style="list-style-type: none"> • N + 1 configuration, gas turbine • Over 72 hours of fuel on site at full load
Power density	<ul style="list-style-type: none"> • Minimum default density of 1.8kW critical load per m² or 6kW per rack as standard • 6kW per rack as a standard and up to 20kW per rack with supplemental cooling
Power usage effectiveness (PUE)	<ul style="list-style-type: none"> • Average annual PUE of less than 1.5

Cooling

Cooling	<ul style="list-style-type: none"> • Water-cooled centrifugal chillers with water side economizers • N + 1 standard, upgradeable to 2N
Emergency cooling	<ul style="list-style-type: none"> • Chilled water storage tanks • Well and sub-floor tanks for make-up water • Computer room air handler (CRAH) and chilled water pumps on mechanical UPS backup
Cooling controls	<ul style="list-style-type: none"> • Exact temperature and humidity controlled within a pre-set range
Cold aisle containment	<ul style="list-style-type: none"> • Available on request, readily integrated during hall and rack fit-out

Safety

Fire suppression	<ul style="list-style-type: none"> • IT space is protected by an inert gas-based fire suppression system • Fire hydrants and extinguishers in the ancillary areas
Smoke detection	<ul style="list-style-type: none"> • VESDA early warning system • High-sensitivity heat and smoke detectors
Staffing	<ul style="list-style-type: none"> • Security staff on site 24x7
Access controls	<ul style="list-style-type: none"> • Multi-layer physical security with biometric authentication system • Customer-specific authentication systems are available on request (Wholesale)

¹ Colocation and wholesale services from TDC1 and TDC2

² TDC1 and TDC2 follow FISC Security guidelines on Computer Systems for Banking and Related Financial Institutions (Facility guidelines)

³ ITIL®v3 is a registered trade mark of the Cabinet Office

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