DATA SHEET – Technology Cell

Our Technology Cell provides up to 34 racks in a uniform layout and is capable of delivering up to 350kW in a contained hot aisle solution.

This efficient format enables uniform IT inlet temperatures and eliminates hot spots for more predictable and reliable IT operations, whilst operating within ASHRAE standard working temperatures. A cage service as well as dedicated biometric verification locks and CCTV can be added to provide additional layers of private security.

FEATURES

- 34 racks (small to medium sized deployments)
- Award-winning, highest-grade data centre environment
- 100% power and cooling availability guaranteed
- Hot aisle containment with free-air cooling
- Carrier neutral with multiple connectivity options.

BENEFITS

- Low TCO (PUE of 1.2 - even at partial loads)
- Customisable architecture and rack densities
- Military grade security standards and procedures
- Remote and smart hands support
- Sustainable - 100% certified, renewable energy.

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KAO DATA

CAMPUS & DATA CENTRE

- 15 acre, +£230M campus supporting an ITE load of over 40MW
- 150,000 sq ft of technical space
- 24/7 fully managed on-site NOC
- Built to Uptime Tier III equivalent
- OCP Ready ™ facility.

POWER & RESILIENCY

- Proven 100% uptime track record
- 43.5MVA supplied from UK National Grid substation
- Dedicated on-site substation (33kV/11kV)
- Minimum N+1 level of resilience and redundancy throughout
- UPS backed with A, B, and C power feeds.

NETWORK CONNECTIVITY

- Carrier neutral data centre
- Variety of carrier connectivity solutions including dark fibre on-site
- Megaport-connected – rapid access to hyperscale cloud providers.

BUILDING CONTROLS

- Early warning VESDA and HSSD control systems
- Water-mist fire suppression system
- Data hall gaseous contaminate monitoring.

SECURITY & MONITORING

- Security personnel on-site 24/7/365
- Exterior and interior 3m high 'anti-climb' campus perimeter fences
- Campus wide CCTV surveillance
- Vehicle barriers, bi-folding speed gates and pedestrian turnstiles
- Authenticated single-flow mantrap entry, access cards, biometric entry system.

ENERGY EFFICIENCY

- Hyperscale levels of efficiency from rack level to full occupancy
- Industry-leading PUE of 1.2 (even at partial loads)
- UK's 1st 100% free-cooling multi-tenant data centre.

SERVICES & SUPPORT

- Flexible range of colocation solutions – Cell, Pod, Suite options
- Range of power densities up to 80kW per rack
- Specialist high density HPC, AI and GPU-powered hardware provision
- Build-to-Suit scalability for hyperscale and industrial enterprise deployments
- 24/7 onsite remote and smart hands
- Dedicated office space, hot-desks and meeting rooms available
- Secure on-site parking.

SUSTAINABILITY

- Certified 100% renewable energy
- Designed to BREEAM Excellent standards
- ASHRAE TC 9.9 environmental guidelines compliant
- Campus-wide recycling
- Electric vehicle charging points.

INDUSTRY CERTIFICATIONS

- ISO 9001:2015 (Quality Management Systems)
- ISO 14001:2015 (Environmental Management Systems)
- ISO 27001:2013 (Information Security Management)
- ISO 45001:2018 (Occupational Health & Safety Management)
- PCI DSS v3.2 compliant
- BREEAM Excellent.

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