

PlatformDIGITAL® High-Density (HD) Colocation

[Data Sheet](#)

High-Density (HD) Colocation

Overview

Designed for enterprise customers and service providers seeking to deploy power-intensive applications such as Artificial Intelligence, Data Analytics, and Machine Learning. Our global data center platform, PlatformDIGITAL®, offers standardized, HPC-ready infrastructure configurations to support high-density workloads. With exponential data growth presenting challenges, we have developed solutions to meet these demands and become a trusted partner for our customers. Customers gain access to a secure, compliant, resilient, and performant foundation that enables the implementation of new technologies and seamless orchestration of data flows. Our goal is to simplify data management complexity and serve as the single, trusted, global data center partner for our customers.

Use Case Continuum



HPC

Engineering Simulations
Financial Modeling



Data Localization

Regulated Workloads
Real-time Data Classification



Data Analytics

Personalized Experiences
Fraud Detection



AI/ML

AI/ML Training
GPU/IPU/FPGA Assisted

AI Artificial Intelligence ML Machine Learning GPU Graphics Processing Unit
IPU Infrastructure Processing Unit FPGA Field Programmable Gate Arrays

Key Attributes



Performant

Purpose built for high-density computing and large-scale data infrastructure



Compliant

Security controls for data compliance including ISO, SOC, PCI, etc.



Secure

Granular, multi-factor security controls at cabinet, cage, suite and facility levels



Extensible

Scale deployments up and out with flexible consumption models



Resilient

Fully redundant components, power distribution, 100% availability as per the SLA



Connected

Diverse, redundant connectivity into dense carrier and cloud neutral ecosystems

ISO International Organization for Standardization SOC Security Operations Center PCI Payment Card Industry

Key Benefits

- ✓ Access to ServiceFabric™ empowers customers to orchestrate data flows and access required datasets for AI applications on-demand
- ✓ Standardized infrastructure enables rapid and consistent deployment with standardized SLAs across PlatformDIGITAL®
- ✓ Offers flexible architecture solutions for a broad range of customer requirements
- ✓ Pre-qualified “High Density Ready” data centers added to CPQ for streamlined ordering and implementation

At-a-Glance

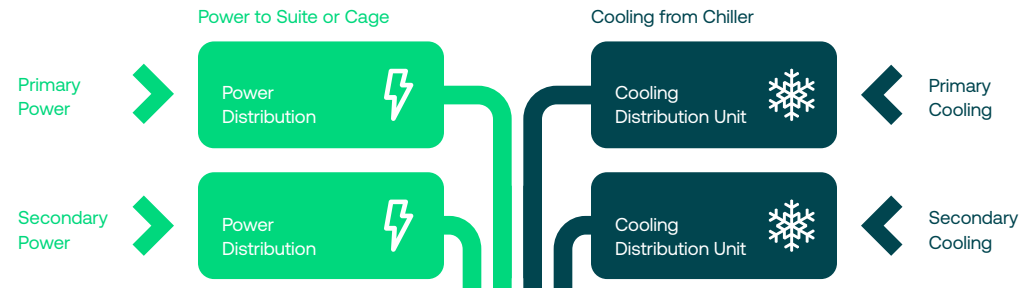
Purpose-built product line for high-performance computing and large-scale data storage infrastructure colocation

High-Density (HD) Colocation

How it Works

Deployed in one of PlatformDIGITAL®'s global campus facilities, High-Density (HD) Colocation provides the necessary components to accommodate high-performance computing & large-scale data storage infrastructure environments.

Utility Structured Services



Power
Facility level, hall level, pod-level redundant power, with backup and, configured for dual-corded rack deployment.

Cooling
Redundant coolant distribution units circulate chilled water from building coolant plant to support rear-door heat exchangers.

Physical Components



Cage or Suite
Power-dense cabinets are equipped with rear-door heat exchangers, while standard cabinets support additional network, compute and storage.

Environmental & Security Monitoring



Additional factors to consider
Granular access and security controls help maintain compliance, while interconnection services provide access to dense eco-systems and service providers.

High-Density (HD) Colocation

Global Availability Map

- PlatformDIGITAL®
- Hosted Connections via Digital Realty ServiceFabric™
- ✓ High-Density (HD) Colocation available PlatformDIGITAL®

North America

- | | |
|---------------|---------------------|
| Atlanta | New York ✓ |
| Austin ✓ | Northern Virginia ✓ |
| Boston ✓ | Phoenix ✓ |
| Charlotte | Portland |
| Chicago ✓ | Querétaro |
| Dallas ✓ | San Francisco ✓ |
| Houston | Seattle |
| Los Angeles ✓ | Silicon Valley ✓ |
| Miami | Toronto ✓ |

Europe

- | | |
|--------------|-------------|
| Amsterdam ✓ | Madrid ✓ |
| Athens | Marseille ✓ |
| Brussels ✓ | Paris ✓ |
| Copenhagen ✓ | Stockholm ✓ |
| Dublin ✓ | Vienna ✓ |
| Düsseldorf ✓ | Zagreb |
| Frankfurt ✓ | Zürich ✓ |
| London ✓ | |

Asia-Pacific

- Chennai
- Hong Kong ✓
- Melbourne
- Osaka ✓
- Seoul ✓
- Singapore
- Sydney
- Tokyo ✓

Africa

- Accra
- Abuja
- Cape Town
- Durban
- Johannesburg
- Lagos
- Maputo
- Mombasa
- Nairobi

South America

- Bogotá
- Fortaleza
- Rio de Janeiro
- Santiago
- São Paulo



About Digital Realty

Digital Realty brings companies and data together by delivering the full spectrum of data center, colocation and interconnection solutions. PlatformDIGITAL®, the company's global data center platform, provides customers with a secure data meeting place and a proven Pervasive Datacenter Architecture (PDx®) solution methodology for powering innovation and efficiently managing Data Gravity challenges. Digital Realty gives its customers access to the connected data communities that matter to them with a global data center footprint of 300+ facilities in 50+ metros across 28 countries on six continents. To learn more about Digital Realty, please visit digitalrealty.com or follow us on [LinkedIn](#) and [Twitter](#).



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