

LIGHTEDGE DES MOINES DATA CENTERS

THE LEADER IN COMPLIANT CLOUD AND COLOCATION

LightEdge was the first to leverage the outstanding benefits the State of Iowa offers for data center owners and tenants through personal property exemptions and sales tax credits for equipment, peripherals, and utility bills. Due to its central US location and the untapped land and fiber potential, Des Moines, IA, was the clear choice for LightEdge's flagship data center back in 2006.

Based on the terrific growth and demand we've experienced, LightEdge opened a second Des Moines facility immediately adjacent to our original data center in Fall of 2017. Des Moines Building 2 is a 48,000 sq. ft. ground-up build with the flexibility to scale up to 72,000 sq. ft within 9 months.

ABOUT LIGHTEDGE

With over 20 years in business, LightEdge offers a full stack of best-in-class IT services to provide flexibility, security, and control for any stage of a customer's technology roadmap.

Our solutions include premier colocation across seven purpose-built data centers, industry-leading private Infrastructure as a Service (IaaS) and cloud platforms, and the top global security and compliance measures. Our owned and operated facilities, integrated disaster recovery solutions, and premium cloud choices make up a true Hybrid Solution Center.



UP FOR CHANGE. NOT UP AGAINST IT.

When you join with LightEdge, every challenge you face in the digital realm becomes more than a mere problem to solve (although we're really good at that, too). Because we embrace a truth others don't: Change is inevitable, but it's the gateway to more opportunities than you ever thought possible. And eventually, you stop seeing digital transformation as a wave crashing down. It's what you ride to bigger and better things.

FULLY REDUNDANT CRITICAL SYSTEMS

- ▲ Redundant isolated path power architecture
- ▲ S+1 power from the substation to the rack
- ▲ Always-on double conversion UPS systems
- ▲ Minimum N+1 redundancy on HVAC infrastructure
- ▲ Advanced airflow delivery and containment
- ▲ Redundant diesel generators
- ▲ Dual-interlock, dry-pipe, pre-action fire suppression

HIGH-PERFORMANCE CONNECTIVITY

- ▲ Full mesh network architecture for 100% uptime
- ▲ Carrier neutral
- ▲ Dynamic, performance-optimized best path routing
- ▲ Private high-speed connection between all LightEdge facilities



COLOCATION FACILITY LOCATIONS

- ▲ Des Moines I & II
- ▲ Lenexa
- ▲ Omaha
- ▲ Kansas City
- ▲ Phoenix
- ▲ Los Angeles
- ▲ Austin I & II
- ▲ San Diego
- ▲ Raleigh

LIGHTEDGE



DATA CENTER SECURITY & COMPLIANCE

- ▲ Convenient access to I-35 & I-80
- ▲ Quick drive to Kansas City, Omaha, and Minneapolis
- ▲ 1-hour flight to Chicago and Denver
- ▲ Ideal for locality & geo-diversity
- ▲ Seismic Zone 0
- ▲ F4 tornado resistant building
- ▲ Outside 500-year flood plain
- ▲ Not in airport landing path

BUILDING & EXPANSION

- ▲ White floor space built out into 10,000 sq. ft. quadrants
- ▲ Rack, cage, and private suite options available
- ▲ Scalable power & cooling that can be dedicated, semi-dedicated, or shared
- ▲ 12-inch reinforced pre-cast walls
- ▲ 200+ mph wind-tested joints
- ▲ 36" sunken slab to eliminate ramp
- ▲ Break down room & storage areas for clients
- ▲ "Burn in" room to test & configure equipment
- ▲ Ample meeting rooms & board rooms onsite
- ▲ Workplace Recovery area for business continuity

BUILDING & EXPANSION

- ▲ Each 1200kW critical system has dedicated infrastructure from utility down to PDU with no "cross-ties"
- ▲ Underground redundant feeds
- ▲ S+1 diversified electrical
- ▲ Each 480V electrical system consists of a:
 - ▲ 2,500KVA liquid filled pad mount utility transformer
 - ▲ 2MW emergency standby-rated diesel generator with 24-hour base tank
 - ▲ 3000A service entrance-rated transfer-breaker pair input switchgear
 - ▲ 1,200kW UPS system with 5 mins VRLA battery run time
 - ▲ 2,000A UPS output switchboard
 - ▲ 200KVA PDUs

COOLING

- ▲ N+1 built-in redundancy
- ▲ 36-inch raised floors
- ▲ 600 tons yields 2.4 MW
- ▲ Dual power-fed HVACs with Variable Speed Fans
- ▲ Humidity set point of 44

CONNECTIVITY

- ▲ Private fiber backbone connects all LightEdge facilities
- ▲ Redundant, carrier agnostic connectivity
- ▲ Cross-connects to full suite of cloud services
- ▲ Variety of LightEdge dark fiber & lit services
- ▲ Dual OC-48 SONET rings & flexible private metro ethernet up to 10 Gbps
- ▲ Enterprise-class, multi-carrier bandwidth
- ▲ Redundant DWDM access to Carrier Hotels

SECURITY

- ▲ Video surveillance at perimeter, throughout facility, and on each data center aisle with 90+ days archival
- ▲ Three levels of secure checkpoints throughout:
 - ▲ Secure check-in with ket card, pin & biometrics
 - ▲ Multi-factor authentication in mantraps
 - ▲ Additional biometrics & key card access for white floor space entry
- ▲ All data center cabinets have combo locks
- ▲ Each cage or private suite is secured with key card access and/or biometric controls
- ▲ Tridium Niagara AX Building Management System
 - ▲ Centralized management of critical Infrastructure equipment
 - ▲ Ensures conformance with ASHRAE TC 9.9 standards for A1 environments
 - ▲ Historical data available for trending

COMPLIANCE

- ▲ PCI DSS & HIPAA compliant
- ▲ SOC 1 Type II, SOC 2 Type II & SOC 3 audited
- ▲ ISO 20000-1, ISO 22301, & ISO 27001 certified

