



EDC55 EDGE DATA CENTER SOLUTION



POWER.
COOLING.
SECURITY.
MONITORING.

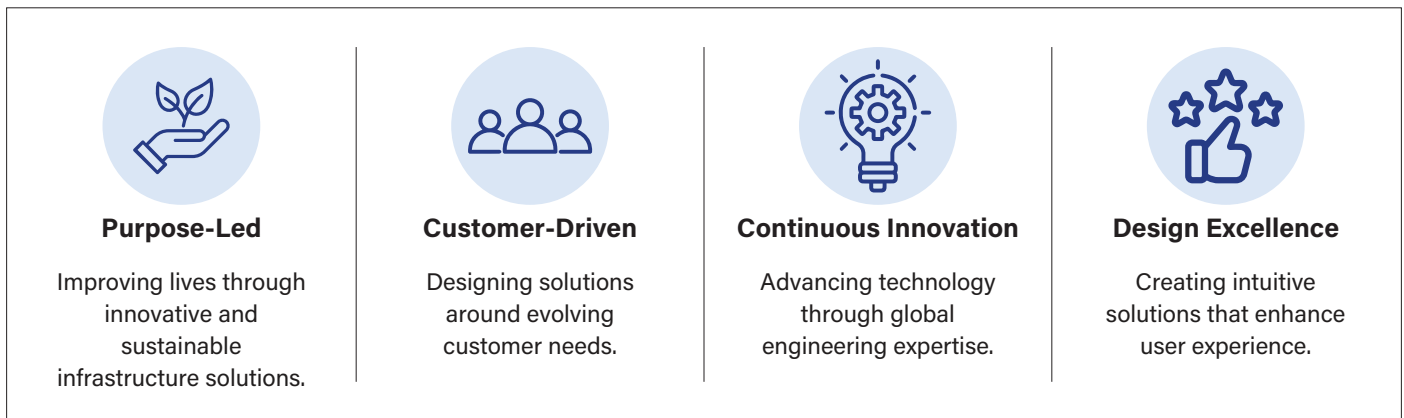


#LegrandImprovingLives



LEGRAND IMPROVING LIVES

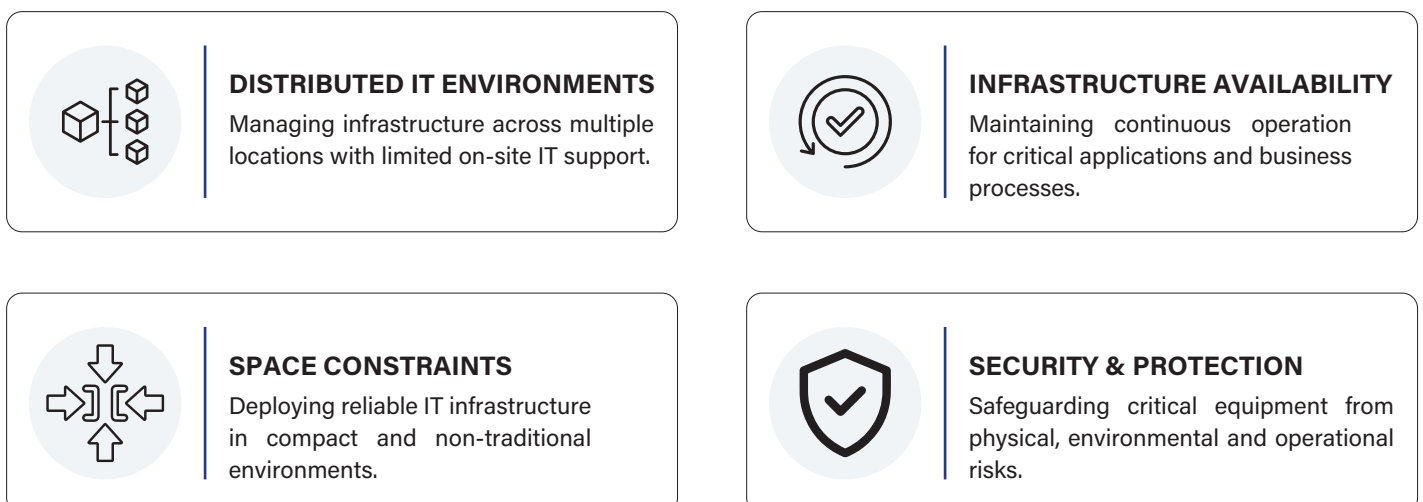
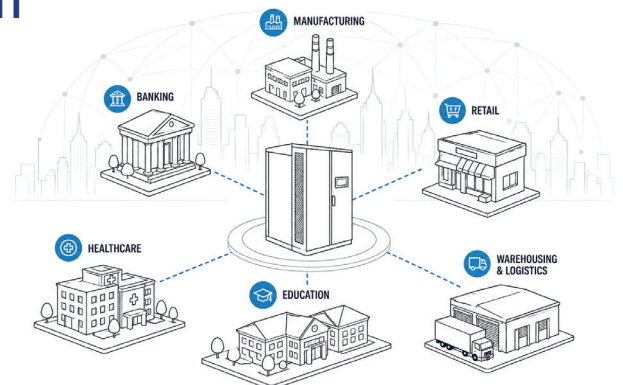
Legrand is a global specialist in electrical and digital building infrastructures, delivering innovative solutions that power, connect and secure critical environments. Through customer-centric innovation, engineering excellence and sustainable design, Legrand enables organizations worldwide to build reliable, efficient and future-ready digital infrastructure.



MANAGING THE NEW ERA OF DISTRIBUTED IT

Digital transformation is accelerating the growth of connected devices, applications and data-intensive services across industries. As organizations expand operations across multiple locations, critical data is increasingly generated closer to users, assets and business processes.

Supporting these distributed environments requires infrastructure that can operate reliably beyond traditional IT spaces while ensuring availability, security and operational continuity.



INTRODUCING

EDGE DATA CENTER

EDC55 is a self-cooled, self-powered, and self-contained Edge Data Center solution designed to simplify the deployment of critical IT infrastructure at the edge.

Backed by Legrand's expertise in data center and electrical infrastructure, **EDC55** combines robust construction with intelligent systems for power distribution, thermal management, monitoring, and security. Its integrated architecture brings together all essential infrastructure components within a single enclosure, creating a standardized and secure platform for edge deployments.

EDC55 transforms edge deployments into standardized, secure, and self-contained micro data centers that can be deployed rapidly and managed centrally. By eliminating the need for multiple vendors, extensive planning, and large dedicated spaces, it helps organizations establish reliable IT environments closer to where data is generated and consumed.



BUILT TO SUPPORT EVOLVING DIGITAL INFRASTRUCTURE NEEDS, EDC55 ENABLES:

- Faster deployment
- Simplified operations
- Operational efficiency
- Reliable performance
- Enhanced infrastructure visibility

WHY ORGANIZATIONS CHOOSE EDC55?



DEPLOY FASTER

Reduces deployment timelines through a pre-engineered, integrated infrastructure solution.



SECURE CRITICAL INFRASTRUCTURE

Protects critical IT infrastructure with intelligent access control, surveillance, and environmental monitoring.



CENTRALIZED MONITORING & CONTROL

Monitor and manage distributed IT infrastructure remotely through a centralized interface.



REDUCE OPERATIONAL OVERHEADS

Simplifies infrastructure management through an integrated, single-vendor solution.



MODULAR SCALABILITY

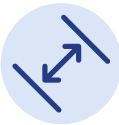
Scale with modular multi-rack expansion without redesigning infrastructure.

BUILD FOR THE EDGE

BENEFITS



ACCELERATES EDGE IT DEPLOYMENT
with a pre-engineered, integrated infrastructure solution



PROTECTS CRITICAL INFRASTRUCTURE
through intelligent physical security and controlled access



ENABLES CENTRALIZED MONITORING & CONTROL
across distributed edge infrastructure



SCALES WITH BUSINESS GROWTH
through modular expansion without redesigning infrastructure.



REDUCES OPERATIONAL OVERHEADS
through simplified infrastructure management and cooling efficiency

FEATURES



HIGH-STRENGTH
rack enclosure with lockable doors, side panels, and up to 1500 kg load capacity



ADVANCED MONITORING AND SECURITY
with environmental sensors, camera surveillance, access control, and fire protection



INTELLIGENT REMOTE MONITORING
with environmental sensors, intelligent PDUs, and centralized system visibility



MODULAR DESIGN
supporting seamless multi-rack expansion as business requirements evolve



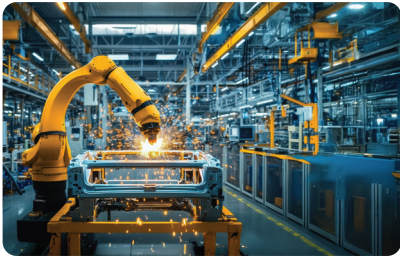
INTEGRATED POWER & COOLING SYSTEMS
including UPS, intelligent PDUs, precision air conditioning, and optimized airflow management



APPLICATIONS



BANKING & FINANCIAL SERVICES



MANUFACTURING



WAREHOUSING & LOGISTICS



EDUCATION



HEALTHCARE



RETAIL & COMMERCIAL

EDC55 ARCHITECTURE

INTEGRATED INFRASTRUCTURE FOR EDGE DEPLOYMENTS

EDC55 brings together the core infrastructure systems required to support critical IT operations within a single enclosure. Its architecture is designed to seamlessly integrate power protection, cooling, monitoring, and physical security, creating a compact and organized environment for IT equipment.

Designed for edge applications, **EDC55** provides a structured foundation for deploying and managing critical infrastructure across distributed environments while supporting reliable, secure, and efficient IT operations.



1. SURVEILLANCE & ENVIRONMENTAL MANAGEMENT

Real-time monitoring of environmental conditions and visual surveillance for enhanced security, visibility, and operational reliability.



2. INTELLIGENT RACK ACCESS FOR PHYSICAL SECURITY

Smart access control system to manage and restrict physical access to the enclosure.



3. UPS & BATTERY BANK

Uninterrupted power protection with integrated battery backup.



4. PRECISION COOLING SYSTEM

Integrated cooling solution engineered to maintain optimal operating conditions for installed equipment.



5. INTELLIGENT PDU FOR POWER

Real-time power distribution and monitoring.



A self-cooled, self-powered, and self-contained architecture designed to simplify edge infrastructure deployment while ensuring operational reliability, security, and infrastructure visibility.

TECHNICAL SPECIFICATIONS

CONFIGURATIONS TO MATCH YOUR INFRASTRUCTURE NEEDS

SPECIFICATIONS	EDC55-3 (3.5 kW)	EDC55-7 (7 kW)	EDC55-10 (10 kW)	EDC55-30 (30 kW)	EDC55-55 (55 kW)
 INFRASTRUCTURE					
IT Capacity (kW)	3.5	7	10	30	55
Number of Racks	1	1	1	2+	2+
Rack Space Available (U)	Approx 27U	Approx 25U	Approx 33U	Approx 36U to 40U	Approx 36U to 40U
Rack Height	45U				
Rack Width	600/800				
Rack Depth	1200	1200	1450	1450	1450
Load Capacity (Static)	1500				
Ingress Protection	IP50				
Cable Entry	IP50				
Door Type	Front Single Glass Door/ Rear Single/Dual Metal Door				

 COOLING					
Cooling Capacity (kW)	3.5	7	10	30	55
Cooling Type	Fixed Scroll/Rack Mount/ Horizontal Cooling Unit	Fixed Scroll/Rack Mount/ Horizontal Cooling Unit	Inverter scroll Vertical Cooling Unit	Inverter scroll Vertical Cooling Unit	Inverter scroll Vertical Cooling Unit
Space Required in (U)	4U for cooling Unit & 2U for maintenance	6U for cooling Unit & 2U for maintenance	Not required	Not required	Not required
Cooling Redundancy	Out door Level Redundancy	Out door Level Redundancy	Possible	Possible	Possible
Refrigerant	R407	R407	R410A	R410A	R410A
Humidifier	Yes	Yes	Yes	Yes	Yes
Heater	No	No	Yes	Yes	Yes

TECHNICAL SPECIFICATIONS

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POWER					
UPS Capacity (kW)	3	10	10	30	60
UPS Redundancy	Yes	Yes	Yes	Yes	Yes
Battery Backup Time	30 Min	30 Min	10 Min	10 Min	10 Min
PDU Type	Normal/Intelligent				
ATS Support	Possible				
Input Voltage	1 Phase	1 Phase	1 Phase	3 Phase	3 Phase
Output Voltage	1 Phase	1 Phase	1 Phase	3 Phase	3 Phase

DEPLOYMENT					
Plug & Play Architecture	Yes	Yes	Yes	Yes	Yes
Typical Deployment Time	2-3 Days	2-3 Days	4-5 Days	4-5 Days	4-5 Days
Remote Management	Yes	Yes	Yes	Yes	Yes
Service Accessibility	Yes	Yes	Yes	Yes	Yes
Expansion Capability	No	No	Yes	Yes	Yes
Warranty	1 year				



WE GO FURTHER

Managing a data center is **complex**. It requires careful consideration of a range of factors to ensure **agility, reliability, scalability, and sustainability**.

To help you **navigate these challenges**, we offer tailored **grey and white space** solutions at scale to meet individual needs through our specialist brands that include **Netrack, Numeric, Adlec, ZPE, CRS, Minkels, Raritan, Server Technology, Starline, and USystems**.

Our approach combines technical expertise with a deep commitment to **sustainability, helping you optimize data center performance** while reducing environmental impact. We build enduring partnerships with our clients grounded in **trust, collaboration, and shared aspirations**. Whether **improving reliability or increasing efficiency**, we work to ensure that every detail is correct.

With our support, you can approach the **future with confidence**, knowing that your data center is ready for what's next.

Technical assistance from Legrand

Telephonic technical assistance for selection of products, technical information, guidance, wiring diagrams and estimation is now made available to you at each Regional Office. Contact the Technical Officer of Legrand at the following telephone numbers

customer.care@legrand.co.in

Call: 022-30416200 for enquiries

New Delhi : Tel.: (011) 3990 2200

Kolkata : Tel.: (033) 4021 3535

Mumbai : Tel.: (022) 6230 1000

Chennai : Tel.: (044) 6612 2800

Hyderabad : Tel.: (040) 4567 1717

For other places, contact the nearest
Regional / Branch / Area offices



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DATA CENTER SOLUTIONS

