Enterprise Micro Data Center
EMDC-IR Series

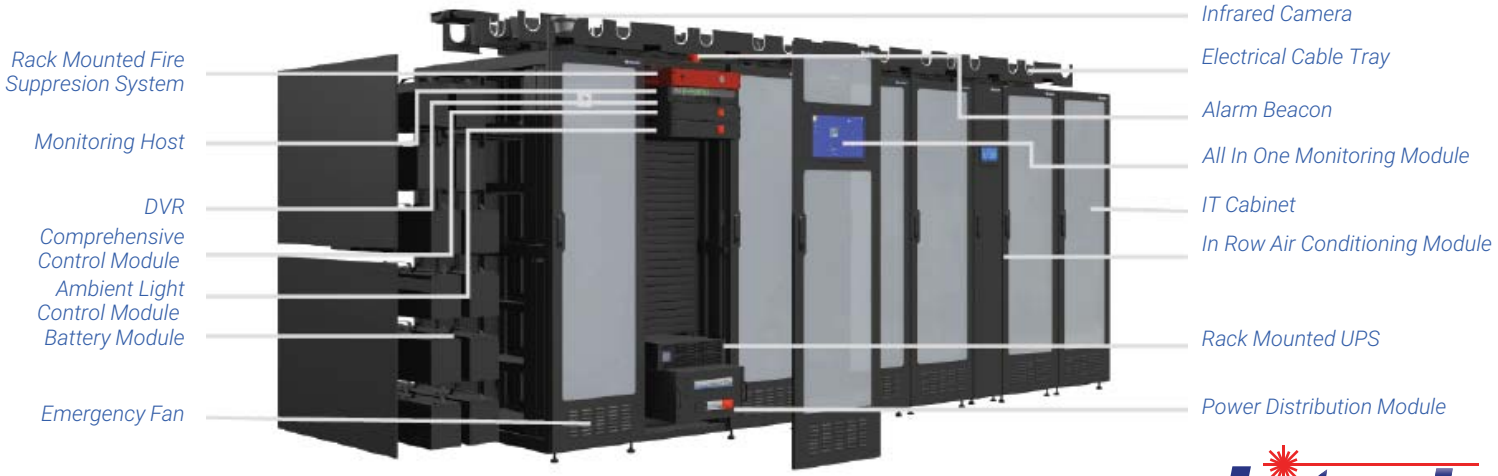


Meeting the demand of edge data center, Litech EMDC-IR Series offers a flexible module configuration of one + (1-8) single cabinet module.

The All-in-One solution that integrates cabinet, power supply and distribution, fire protection, cooling, monitoring and integrated cabling system that is modular thus providing a total data center solution. Standardized components, modular architecture, and quick on-demand construction to meet various customers demand with complete pre-installation and testing in factory to reduce construction time at site.

FEATURES

- Cabinets are directly coupled and assembled to form a double aisle closure on both hot and cold aisles.
- Cabinets can be flexibly combined for future on-demand expansion
- Flexible module configuration with reliable performance
- Equipped with a monitoring system that can continuously monitor various functional modules



Litech®

Enterprise Micro Data Center
EMDC-IR Series

Product Specification

Model	EMDC -IRT-426013	EMDC -IRT-428013
Rack System		
Dimension (W*D*H) (mm)	600*1350*2000	800*1350*2000
Customizable Dimension (W*D*H) (mm)	X*1350*2000(mm), X=600N(N=1,2,8)	
Total Load	Up to 40kW	
Total IT Load	Up to 36kW	
IT Rack Qty	Up to 8 Racks	
Max Load per Rack	Up to 5kW	
Reliability	Tier I, Tier II, Tier III	
Cooling System		
Cooling Unit	InRow Cooling	
Cooling Capacity	25kW per InRow Unit	
Cooling Mode	Air Cooled	
InRow Unit Dimension	300*1350*2000	
Refrigerant	R410A	
Power Supply & Distribution		
Input Power Supply	220V, 50Hz, 1P+N+E. or 380/400/415AC, 50/60Hz, 3P+N+E	
Power Distribution Module		
Power Input Capacity	160A/3P*1	
Surge Protection	Class C	
Maintenance Bypass	125A/4P*1	
Aircond MCB	40A/3P*3	
Output Branch	125A/3P*2	
Main Power Output	32A/1P*14	
UPS Output	32A/1P*14	
Aircond MCB	Equipped with RS485 module to monitor main and branch power supply voltage, current, and power; Equipped with power input indicator light; No display screen.	
Chassis Height	13U	
UPS		
Capacity	40 KVA; Three phase in, Three phase out; Power factor: ≥ 0.99	
Frequency range	40Hz~70 Hz	
Communication port	RS232 or USB	
Battery	32 x 12V 40Ah	
Battery Rack Model	EMDC-IRB-426013	
Battery Rack Size	600*1350*2000	
Rack PDU	2* RPDU Switched (IP) per IT Rack, Single Phase, 16*C13 + 4*C19, 3m Cord Length, IEC 60309 32A, 0U Vertical	

Litech®

Enterprise Micro Data Center
EMDC-IR Series

Monitoring System	
Display	10.5" inch touch screen monitor with capacitive touch screen technology, 12V DC, LCD Resolution 800*1280
Temperature & Humidity Sensor	RS485 interface, 12V power supply
Smoke Sensor	DI access
Water Leakage Sensor	3m non-positioning
Lighting	Blue monochrome LED light strip -200mm
Door Sensor	Door status detection
Intelligent	Battery monitoring, video, electrical access, QR code access, intelligent linkage
Equipment Monitoring	UPS, air conditioners, power distribution , cabinet temperature and humidity sensors, smoke sensors;
Interface	RS485, RS232, DI, DO, USB
Communication Protocol	Uplink: Modbus TCP, downlink: Modbus RTU
Fire Suppression System	
Emergency Ventilation System	Combination of Damper & Emergency fan , open at 45 degree °C
Fire Suppression System	19" Rack Mount 2U Height
Fire Extinguishing Agent	FM200/Novec 1230N
Trigger Method	Fire detection tube standard/Electronic trigger/Third-party fire protection system trigger/Manual
Environment	
Operating Temperature	-40°C~55°C

In Rack Air Flow System

