

The trend of interconnection of all things, the importance of access nodes at the edge of the network is becoming more and more important. **EDGE^{Easy}air** series All In One cabinet integrates the networking main equipment and physical infrastructure into a 42U cabinet, providing a safe and highly accessible IT environment and safe platform for network access nodes.



Introduction

RakworX **EDGE^{Easy}air** All In One cabinet creates business flexibility that allows for opportunistic sizing, creating flexibility, more closely match capacity to demand (and facility features with property requirements), reducing wasted capital. Can push capacity closer to demand, improving latency and customer experience. Improve global reach and flexibility by removing large upfront capital expenditures. Time to market is reduced by as much as 1/6.



Indoor



Outdoor



Flexible Expansion



DSCV Management System



Centralized Management



Network 1



Network 2



Network 3



Network N

P/N: E2A-R1A-2 (Indoor)	P/N: E2A-R1A-5 (Indoor)	P/N: E2A-R1A-5 (Outdoor)
600mm (W) x 1400mm (D) x 1950mm (H)	750mm (W) x 1400mm (D) x 1950mm (H)	880mm (W) x 1554mm (D) x 2192mm (H)
Max. IT Loading: 2kW	Max. IT Loading: 5kW	Max. IT Loading: 5kW
UPS, Battery: 3U	UPS, Battery: 5U	UPS, Battery: 5U
Power Distribution Panel: 4U	Power Distribution Panel: 4U	Power Distribution Panel: 4U
IT Equipment: 23U	IT Equipment: 21U	IT Equipment: 21U
Cooling Type: Natural Air+Evaporative Cooling	Cooling Type: Natural Air+Evaporative Cooling+ Supplemental Cooling (Optional)	Cooling Type: Natural Air+Evaporative Cooling+ Supplemental Cooling (Optional)

Benefits

Energy-Saving and Low Opex

- ✓ Natural air, evaporative cooling, high efficiency, energy saving
- ✓ Hot and cold internal circulation system
- ✓ pPUE as low as 1.1

Fast Deployment and Re-deployment

- ✓ Fully tested in factory, plug&play
- ✓ Elimination of civil engineering works and related approvals
- ✓ No need computer room
- ✓ No need cooling outside unit

High Outstanding Aesthetics

- ✓ Friendly UI interface
- ✓ Pure IT style

High-Reliability

- ✓ Enclosed cabinet, RakworX PDU provides overcurrent and short current protection, real-time power metering and outlet switching is optional
- ✓ Seamlessly component coupling
- ✓ Optional lightning protection device

Most Intelligent

- ✓ 15.6" tactile screen
- ✓ Critical components, cooling, environment monitoring, real-time PUE
- ✓ Intelligent lighting, lighting up when door opens
- ✓ Centralized management of multi networks

Applications



Healthcare sector



Ruggedized - Military operations require robust, mobile and easy to deploy solutions in the harsh environments of military bases and remote operations



Branch offices of banks, insurance companies, telco operators and government bodies



Industrial applications: exploration research and manufacturing

	E2A-R1A-2 (Indoor)	E2A-R1A-5 (Indoor)	E2A-R1A-5 (Outdoor)
Input			
Normal Input Voltage	100-120 V AC, 1PH, 50/60 Hz	200-240 V AC, 1PH, 50/60 Hz	200-240 V AC, 1PH, 50/60 Hz
Maximum Input Current	32A	40A	40A

Power Distribution

	E2A-R1A-2 (Indoor)	E2A-R1A-5 (Indoor)	E2A-R1A-5 (Outdoor)
Power Distribution Panel	Input 32A, SPD classC, Output 2x25A, 3x4A, integrated UPS maintenance bypass	Input 40A, SPD classC, Output 2x32A, 2x4A, 1x16A, integrated UPS maintenance bypass	Input 40A, SPD classC, Output 2x32A, 2x4A, 1x16A, integrated UPS maintenance bypass
PDU	Rack mount, 0U, AP1000 series, input 100-120V, 20A, output 16x5-20R	Rack mount, 0U, AP1000 series, input 230V, 32A, output (14) C13, (2) C19	Rack mount, 0U, AP1000 series, input 230V, 32A, output (14) C13, (2) C19

Physical Characteristics

	E2A-R1A-2 (Indoor)	E2A-R1A-5 (Indoor)	E2A-R1A-5 (Outdoor)
Size	650 mm (W) x 1400 mm (D) x 1950mm (H)	750 mm (W) x 1400 mm (D) x 1950mm (H)	880 mm (W) x 1540 mm (D) x 2192mm (H)
Weight	160 kg (Excl. IT Equipment)	180 kg (Excl. IT Equipment)	270 kg (Excl. IT Equipment)

Management System

	E2A-R1A-2 (Indoor)	E2A-R1A-5 (Indoor)	E2A-R1A-5 (Outdoor)
DSCV Management System	Power, cooling & environment monitoring, PUE display, optional module for IT monitoring	Power, cooling & environment monitoring, PUE display, optional module for IT monitoring	Power, cooling & environment monitoring, PUE display, optional module for IT monitoring
Sensors	T/H & smoke sensor x 1, leak sensor x 3	T/H & smoke sensor x 1, leak sensor x 3	T/H & smoke sensor x 1, leak sensor x 3
HMI	15.6" tactile screen	15.6" tactile screen	15.6" tactile screen

Operating Condition

	E2A-R1A-2 (Indoor)	E2A-R1A-5 (Indoor)	E2A-R1A-5 (Outdoor)
Temperature	-15°C ~ 45°C	-15°C ~ 45°C	-15°C ~ 45°C
Seismic	Option	Option	Option
Elevation	0 - 1,000m	0 - 1,000m	0 - 1,000m

Traditional Modular Data Center (MDC) vs EDG²Easy^{air} All In One Cabinet

	Traditional MDC	EDG ² Easy ^{air} All In One Cabinet
Infrastructure Construction	Yes	No
Design and Installation	Every component is designed individually and assembled on site	System level customization, plug and play
Cable & Wiring	Wiring on site without rules	Factory prefabricated, fully tested, safety compliant
Lead Time	2-3 Month	1 day
Foot Print	10-20 m ²	< 2m ²
Cooling Efficiency	More heat build-up causes an increase in energy consumption for air conditioning, resulting in increased operating expenditures	Natural air & evaporation cooling, energy-saving, stable
Low PUE	Over 1.5	As low as 1.1
TCO	CAPEX for the initial construction phase can be unpredictable making it difficult to maintain an accurate project budget	Lower overall costs and project timeline by using a simplified cooling system, lower energy consumption and less building renovation

Flexible expansion

Excellent flexibility to match user business growth

Deploy as needed

Future extension, simple relocation for future extension deployment

Customizable



About RakworX

RakworX is a manufacturer of high-quality data center infrastructure products including IT cabinets in multiple applications, rack power distribution units (PDU), airflow containment for data center efficiency optimization and modular data centers (MDC) with intelligent natural air cooling which may reduce PUE as low as 1.1. The high prefabricated data center EDG²Easy^{free} full series ranging from 50KW to 300KW have successfully achieved TIER-Ready III certification from the Uptime Institute. The TIER-Ready EDG²Easy^{free} series consists of five basic topological units with the same TIER III topology.

RakworX is committed to provide our customers with unique quality products, superior services and cost efficient solutions, giving you a competitive advantage. For more information, please contact a RakworX Specialist at (949) 251 1362 or sales@rakworx.com.

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