

EMS Controller

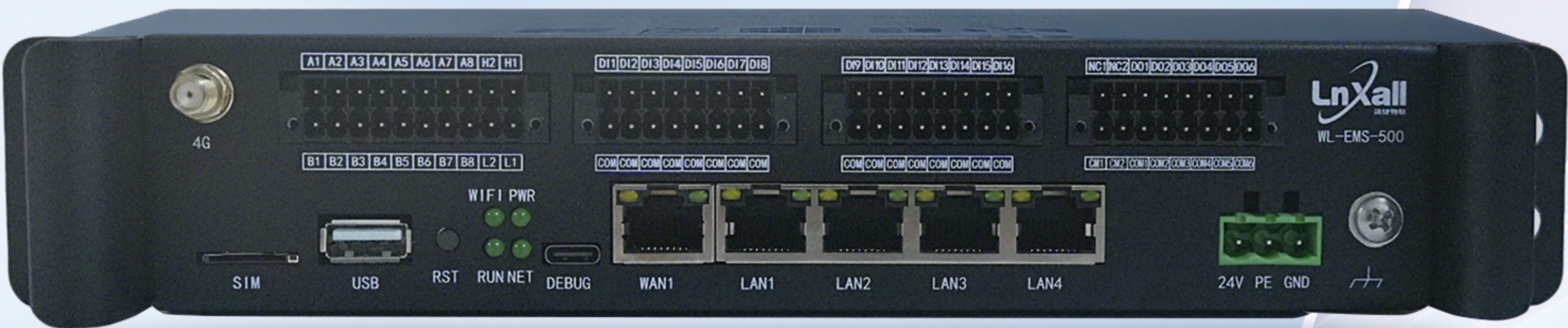
WL-EMS-500

Application scenarios

Single-cabinet energy management includes connection to southbound energy storage equipment, equipment data acquisition, and localized support for peak shaving and valley filling, demand control, backflow prevention, and load tracking.

Product Introduction

The Lnxall IoT WL-EMS-500 series EMS controller integrates multiple cutting-edge technologies such as edge computing, data storage, communication management, security protection, and local visualization. It combines a Battery Management System (BMS), Power Conversion System (PCS), Power Environment Monitoring System, Fire Protection System, DI/DO devices, and other components to form an integrated energy management system solution. The EMS500 controller is specifically designed for local energy management scenarios in industrial and commercial energy storage, comprehensively ensuring the safe and stable operation of local energy storage systems.



EMS Controller
WL-EMS-500

Product Name	EMS Controller	WL-EMS-500
Power supply	DC 24V/1A or DC 12V/2A	Reference power supply range DC 12V ~ 36V
Operating power consumption	Average 10W	Full load operation < 15W
Hardware parameters	ARM industrial-grade CPU	800MHz CPU × 1
	8 GB eMMC storage	Onboard 8GB storage
	512MB DDR	Onboard 512MB memory
	64GB TF	Onboard 64GB TF chip
	Shelf size	25.7 × 18.5 × 4.5cm (L×W×H)
	Main unit size	21 × 16.5 × 4.5cm (L×W×H)
	Approximate weight	1.28Kg
Communication interface	Wireless (Optional)	One 4G antenna; supports full network 4G Cat 1
	Ethernet	1-way WAN, 4-way LAN
	Industrial serial port	8-way RS485
	CAN	2
	DI	16
	DO	8
Other	Operating temperature	-20℃ ~ 60℃
	Storage temperature	-40℃ ~ 85℃
	Operating humidity	≤ 95% RH (No condensation)
	Test certificate	CE、RoHS2.0