

# STX-700

Gateway-type EMS can interface with the local EMS/EMU of energy storage systems or directly connect with various equipment units in energy storage systems. STX-700 is a new-generation smart gateway for industrial IoT in energy storage field. This product adopts a high-performance embedded CPU and large-capacity eMMC storage. With its excellent system configuration, it provides high-speed data processing and efficient application performance.

After connecting to UniEnergy, STX-700's built-in powerful strategy system and cloud analysis functions enable cloud-edge collaboration for intelligent regulation of energy storage charging and discharging.



Supported protocols: 101, 104, 61850, MQTT, Modbus, ModbusTCP, OPCUA, Bacnet/IP, etc.



Enable data communication, conversion, and collection for 250+ mainstream PLC devices and RS485/232 interface devices.

Product Model		STX-700
CPU	CPU	High-performance 4-core 64-bit processor, max frequency 2.0GHz
	DDR3	Onboard LPDDR4, 2GB (optional 4G/8G)
	EMMC	Onboard eMMC, 16GB (optional 32G/256G)
Communication	4G/5G	Support standard 3G/4G/5G communication modules
	WiFi	IEEE802.11b/g/n/a/ac 2T2R
	BT	Compatible with Bluetooth 2.1/3.0/5.0
Interface	USB	1x USB2.0 Type A, 1x USB3.0 Type A
	RS232	2x RS232 (2 channels shared with RS485 via hardware selection)
	RS485	10x isolated RS485 (2 channels shared with RS232), isolation voltage 3KV
	LAN	4x LAN RJ45 10M/100/1000Mbps
	CAN	3x isolated CAN
	AI	4x AI, supports 4~20mA or 0~10V collection
	DO	8x relay-type outputs (5A 220VAC/28VDC)
	DI	18x dry contact/wet node digital inputs
Others	HDMI	1x HDMI interface
	SIM	1x drawer-type SIM card slot
	Indicator	Power, status, LAN, 4G, WiFi, serial port, CAN port, DI data LED indicators
Environmental Parameter	Watchdog Timer	1x CPU watchdog, 1x external hardware watchdog
	Operating humidity	0%-90%RH, non-condensing
	Operating temperature	-40°C~70°C
	Power supply	DC 12-36V wide input, 10KV ESD protection
	Drop resistance	IEC60068-2-32
	Shock resistance	IEC60068-2-27
	Vibration	IEC60068-2-6
	Surge	EN61000-4-5.level3
	ESD	GB/T 17626.2-2006.level3
	Conducted disturbance	EN61000-4-6.level3
	Radiated field	EN61000-4-3.level3
	Pulsed field	EN61000-4-4.level3
	Power frequency magnetic field	EN61000-4-8 horizontal/vertical 400A/m (>level 3)
	Oscillatory wave immunity	EN61000-4-12.level3