

PowerTrack™ Logger

The Next Generation of AlsoEnergy's PowerLogger 1000

The PowerTrack Logger delivers enhanced performance, expanded capabilities, and future-ready technology for commercial and utility-scale solar installations. This upgrade brings significant operational advantages while maintaining the reliability and ease-of-use that has made the PowerLogger 1000 the industry standard.

Key Upgrade Highlights

PowerTrack Logger vs. PowerLogger 1000

- **100-Device Capacity:** Modern, high-performance, high-efficiency chipset allows users to monitor and control more assets without sacrificing panel power budget
- **Dual Network Architecture:** Two independent gigabit Ethernet ports enable seamless integration with BESS, third-party systems, network segregation, and complex network topologies without additional firewalls or managed switches
- **Enhanced Security Architecture:** Hardware-level Secure Boot protection, encrypted cloud comms, over-the-air OS updates and upgrades for rapid security patching, and built-in network segmentation through dual independent Ethernet ports
- **Certified for International Deployment:**
 - Enhanced standards (UL 62368-1:2019, IEC 62368-1:2018, CSA C22.2#62368-1:2019)
 - Expanded EMC compliance (EN 61000-6-2:2019, EN 61000-6-4:2019)
 - Global deployment ready (ETL Listed US/Canada/EU, CE Marking, RoHS Compliant, CB Certificate)

Next-Generation Technology

- **AI Processing Unit:** 2.3 TOPS dedicated NPU for edge analytics
- **Enhanced Display:** Full-color capacitive RGB MIPI touchscreen
- **Advanced Security:** Secure Boot enabled hardware, encrypted edge-cloud traffic, built-in network segmentation, OTA OS patches



Migration Benefits for Existing Customers

Seamless Transition

- **100% Backward Compatibility:** Drop-in replacement for PowerLogger 1000
- **Same Physical Footprint:** Identical DIN rail mounting and dimensions
- **Existing Infrastructure:** Compatible with current power supplies and wiring
- **Platform Continuity:** Seamless integration with existing PowerTrack software

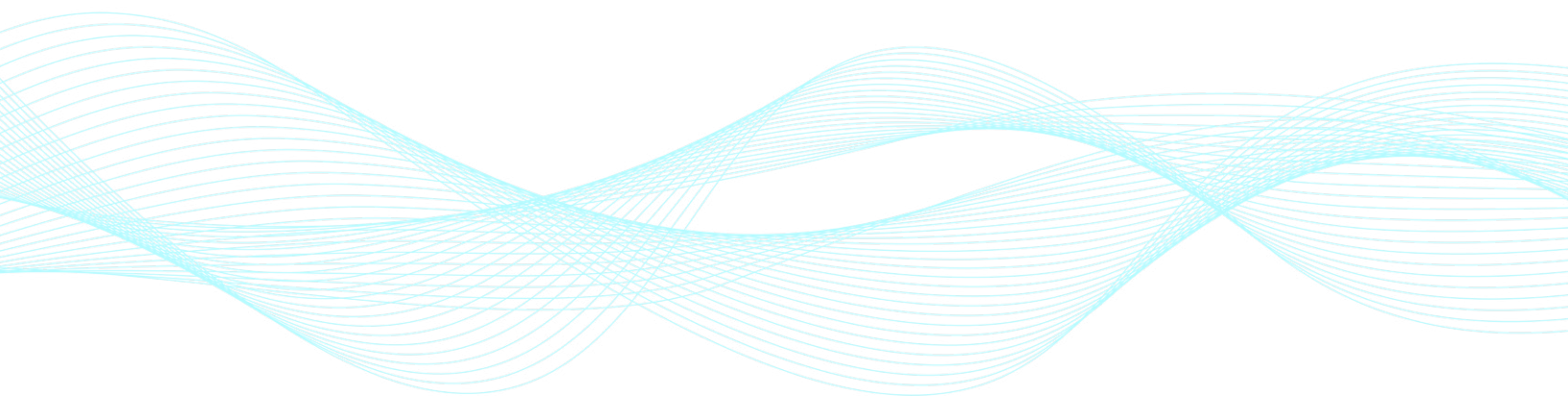
Immediate Performance Gains

- **Scale Larger Installations:** Handle 2.5x more devices with same hardware footprint
- **Enhanced Field Experience:** Improved capacitive touchscreen and UI for easier commissioning
- **Future-Proof Investment:** AI-ready platform for upcoming advanced analytics

New Market Opportunities

- **Utility-Scale Projects:** Enhanced device capacity enables larger installations
- **Hybrid Systems:** Support for PV + storage applications
- **Enhanced Security:** Meet enterprise and utility cybersecurity requirements

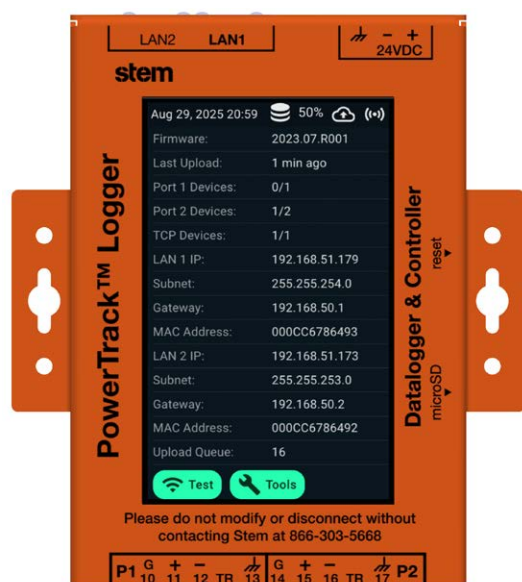
Detailed Feature Evolution			
Specification	PowerLogger 1000	PowerTrack Logger	Improvement
Device Capacity	Up to 40 devices	Up to 100 devices	+150%
Storage	2 GB microSD (removable)	32 GB internal eMMC	+1,500%
Offline Storage	~30 days @ 40 devices, 60s intervals	~180 days @ 100 devices, 60s intervals	6x longer data retention
Sampling Rate	Down to 1 minute	Down to 1 minute	Equivalent
Display	Color resistive 2" x 2.75"	Color capacitive RGB MIPI w/ new UI	Enhanced UX
Ethernet Ports	One 10/100 port	Two 10/100/1000 ports	+100% ports, up to 10x speed
RS485 Ports	Two 2-wire with termination	Two 2-wire with termination	Equivalent
Power Input	12/24 VDC (8-33VDC)	24VDC (8-31VDC)	Simplified range
Power Consumption	<1.7 W	<6 W	Still very low vs 25-50W industrial PCs
AI Processing	None	2.3 TOPS dedicated NPU	Ready for local AI-powered insights
Security	TLS 1.2	Secure Boot + TLS 1.2 + OTA OS Updates + Network Segmentation	Major Security Upgrades
Warranty	5 years	5 years	Equivalent



Application Scope Evolution

DAS Application Type	PowerLogger 1000	PowerTrack Logger
Commercial & Industrial (C&I)	✓ Supported	✓ Enhanced
Utility-Scale	✗ Not supported	✓ New
PV-Only Systems	✓ Supported	✓ Supported
Hybrid Systems	✗ Not supported	✓ New
Energy Storage Systems	✗ Not supported	✓ New

The PowerTrack Logger ensures customers can **scale their operations, future-proof their investments, and leverage next-generation capabilities** while maintaining the **reliability and simplicity** that made PowerLogger 1000 the industry standard.



For technical specifications, migration planning, and transition timeline information, contact your Stem, Inc technical team.

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