

EnVision™ Elite Touch Controller

Building Next Generation Smart Networks

 **EnVision™**
ELITE



Introducing the EnVision™ Ecosystem by EnerSys®

A GAME-CHANGER IN SMART NETWORK CONNECTIVITY AND MANAGEMENT



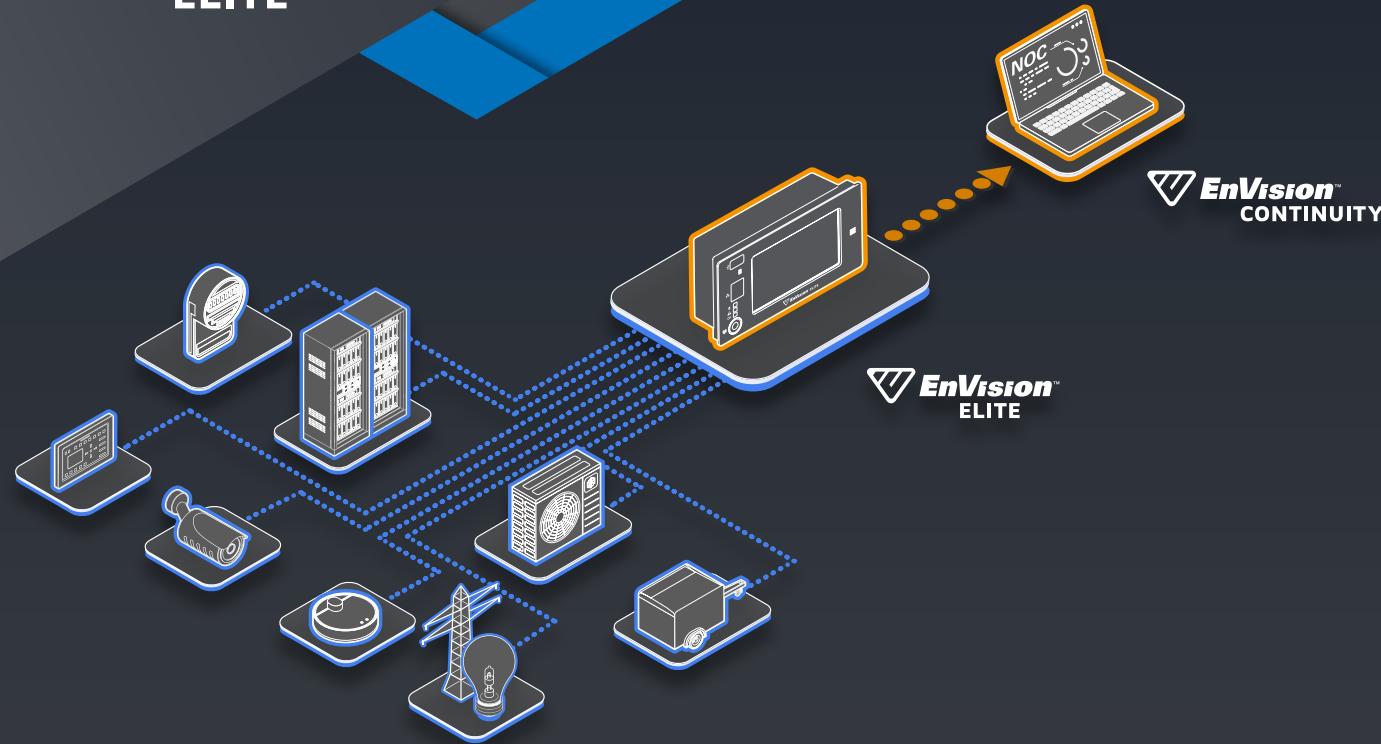
FOR TOO LONG, BUSINESSES HAVE BEEN RELYING ON OUTDATED SYSTEMS THAT STRUGGLE TO KEEP PACE WITH THE INCREASING DEMANDS OF MODERN NETWORKS. AT ENERSYS®, WE BELIEVE THAT STICKING WITH THE STATUS QUO IS NO LONGER AN OPTION—ESPECIALLY WHEN OPERATIONAL EFFICIENCY AND SECURITY ARE MORE CRITICAL THAN EVER.

Traditional network management solutions are reactive, often addressing issues only after they have disrupted operations. This approach is not sustainable in a world where downtime is costly and cyber threats are becoming more sophisticated.

The EnVision™ ecosystem is not just an incremental improvement—it is a paradigm shift. Built on four pillars—Control, Sense, React, and Explore—it goes beyond conventional lifecycle management by empowering your business to predict and prevent issues before they happen. It is not about catching up to today's problems; it is about anticipating and overcoming tomorrow's challenges.

With the EnVision™ Elite Touch controller, you are not just aligning with industry standards—you are setting new ones. EnerSys® has redefined what network performance and security should look like, offering a system that operates at peak efficiency while providing unmatched reliability. You no longer need to choose between system performance and security; with the EnVision™ Elite controller, you get both.

If you are serious about outperforming the competition, maintaining the highest levels of security, and optimizing your operational efficiency, the time to act is now. The EnVision™ ecosystem is your opportunity to challenge the limitations of outdated systems and embrace a future where your infrastructure is smarter, more responsive, and substantially more secure.



FUTURE-PROOF YOUR IOT ECOSYSTEM

IoT growth brings complexity and security risks. The EnVision™ EliteTouch controller helps you stay ahead by acting as a master controller with high-performance System on Module data handling capabilities. It reduces the number of devices needing direct access to your Network Operations Center, serving as a security shield and ensuring long-term adaptability. With this controller, you can proactively manage your IoT infrastructure for a more robust and secure ecosystem.

EASY INTEGRATION, MAXIMUM COMPATIBILITY

The EnVision™ EliteTouch controller offers cutting-edge performance, control and monitoring while ensuring seamless integration with your current systems. Its backward compatibility with Alpha® Cordex® power systems and the Cordex® HP controller form factor allows for easy upgrades with minimal disruption. Keep your operations smooth and future ready.



SOFTWARE FEATURES



DASHBOARD: An instant overview of the status of critical power equipment connected to the controller.



ALARM STATISTICS: Comprehensive alarm data with an easy-to-read table view, featuring precise activation times and prioritized levels.



AUDITING: Real-time events and alerts, including battery status, power outages, customer data logs, and performance insights.



MAINTENANCE VIEW: Effortlessly import/export configuration files, perform software, operating system, and firmware upgrades, and ensure data security with backup export and restore capabilities.



SECURITY: SNMPv3 and secure remote authentication with RADIUS and TACACS+ protocols.



USER MANAGEMENT: Manage up to 7 user accounts with ease, featuring 5 customizable privilege levels to improve security and streamline management, minimizing the risk of data breaches and security incidents.



OPTIMIZATION & BATTERY TEST: Efficient energy optimization with load sharing and power-saving features.



ENVIRONMENT MANAGER: Precise cooling management for systems using fans and air conditioning units, operated via advanced relay technology.



WIRELESS CONNECTIVITY: Seamless wireless connectivity to the controller from smartphones, tablet computers and laptops within a 30-meter range.



EnVision™ Elite Touch controller gives customers complete control over their power systems at the site level, enhancing visibility, boosting confidence, and optimizing operational efficiency for more reliable operations.

SECURE YOUR IOT DEVICES FOR THE FUTURE

Cyber threats are evolving, and traditional security measures often fall short. The EnVision™ Elite Touch controller provides multi-layered protection at the hardware, software, and operating system levels. With an embedded Trusted Platform Module (TPM) chip and Linux OS, it ensures fast deployment of security patches, encryption, and software signing and verification. Designed to meet the IEC-62443-4-2 standard, this controller offers future-proof security against the latest threats.

OPERATING SYSTEM
Linux® Operating System

SOFTWARE
EnVision™ Elite Software

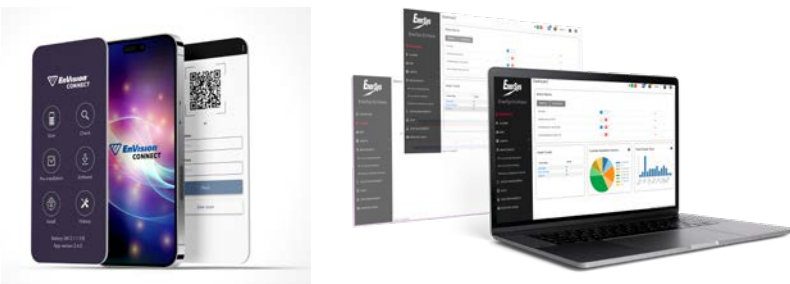


HARDWARE
Secure Element
Trusted Platform Module


Linux® Operating System	<ul style="list-style-type: none">• Solid foundation• Long-term community support• Security principles embedded into core architecture
Secure Element Trusted Platform Module	<ul style="list-style-type: none">• Facilitate implementation of ISA/IEC 62443-4-2 standard• Critical keys and credentials can be stored• Application software and operating system integrity verified through cryptographically signed software
EnVision™ Elite Software	<ul style="list-style-type: none">• Seamless implementation of advance security features on software layer (encrypted storage, backup integrity and authenticity, supporting certificate management protocol) - planned for a future software releases.

OPTIMIZE PERFORMANCE WITH SEAMLESS INTEGRATION

Stop managing your power systems in silos. The EnVision™ EliteTouch controller integrates seamlessly with the EnVision™ Connect system monitor and EnVision™ Continuity management software, enabling precise monitoring of battery performance and premature failure detection. Wireless tracking of voltage and temperature ensures optimal management, helping you make smarter procurement decisions and gain full control over your network's power infrastructure.



EnVision™ Elite Touch controller 2RU Touchscreen PN: 0180100-001

FEATURES	
LCD Panel	High resolution touchscreen LCD panel, 720 × 1280 pixels, with backlight and contrast.
Web Interface	Embedded web-based user interface accessed via Ethernet or Wi-Fi using a web browser.
Audio	Two multitone audio signaling devices.
LEDs	Three front panel LEDs for alarms, progress, and status indication.
Wireless Accessibility and Bluetooth® Low Energy Support	Wirelessly connect to a mobile computing device (tablet, smart phone, or laptop) as long as the device is within 100 feet (30 m) line-of sight proximity.
Redundant Power Input	Auxiliary Power Input Connector.
ELECTRICAL	
Input Voltage	12 to 60 VDC
Input Power	10 W
COMMUNICATION PROTOCOLS	
SNMP	SNMPv3 via Ethernet. Compatible with subscription and discovery services.
Modbus TCP/IP	IPv4 or IPv6
Email	SMTP via Ethernet
Wireless Access Point and Bluetooth® Low Energy	2.4 GHz antenna and Bluetooth® Low Energy (BLE) 5.0.
Modbus RTU (RS232 or RS485)	Supported via the Cordex® HP Protocol Bridge peripheral.
COMMUNICATION PORTS	
CAN	Two RJ12 offset ports
Ethernet	Two RJ45 1000Base-T ports
USB	Two USB 2.0 ports
Wireless Antenna	Detacheable Wi-Fi/Bluetooth antenna
MECHANICAL	
	
Dimensions H × W × D	3.3 × 6.1 × 1.8 in. (83.5 × 153.8 × 46.2 mm)
Net Weight	1 lb (0.5 kg)
Rack Mounting	• Panel Mount • 3RU Rack Mount Assembly • DIN Rail Mount Kit
CAN Communication	Two RJ12 offset ports (right side) for communication to Alpha®, DPX, and Cordex® power electronics and peripherals.
Cooling	Fanless design with integrated heat sink for passive cooling and lower maintenance.
ENVIRONMENTAL	
Operating Temperature	–40 to 149°F (–40 to 65°C)
Storage Temperature	–40 to 185°F (–40 to 85°C)
Relative Humidity	5% to 95% non-condensing
Elevation	Up to 13,124 ft (4,000 m)

REGULATORY COMPLIANCE					
CE marked	IEC 62368-1, CSA/UL 62368-1				
EMC	FCC CFR 47 Part 15/B Class A				
	CAN ICES-003(A)/NMB-003(A)				
	ETSI 300 386 v2.1.1				
	IEC/EN 61000-4-2, IEC/EN 61000-4-3, IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6				
Network Equipment-Building Systems	Designed to pass NEBS Level 3				
Sustainability	RoHS 3 2011/65/EU and 2015/863/EU WEEE 2012/19/EU and 2018/849/EU				
HARDWARE, SOFTWARE, OPERATING SYSTEM, AND SECURE ELEMENT					
Operating System	Linux®				
Supported Software Version	Version 9.0 or later.				
Processor	NXP® i.MX 8 Series System on Module, Arm® Cortex® A53, 1.2 GHz, 8 GB Flash, 1 GB RAM.				
Trusted platform module “IoT Security”	NXP® EdgeLock® secure element with Common Criteria Evaluation Assurance Level (EAL) 6+ and FIPS 140-2 certified security for Zero Trust Networks.				
Supercapacitor	Backup the real-time clock temporarily in the event of a transient event or power loss				
SOFTWARE FEATURES					
POWER SYSTEM MANAGEMENT AND MONITORING					
<ul style="list-style-type: none">• System support for a wide range of applications including DC systems, distributed power transport systems, inverter systems, converter systems, distribution systems, line power systems, generator control, HVAC systems, and more.• Load sharing and power save features for optimizing system efficiency.• Programmable logic with equations, timers, counters, and scheduled actions.• Configurable alarms, user defined alarms, emailed alarms, and event logging.• Performance logging and custom data logging.• Configuration management with scheduled backups as well as partial, system, and clone configuration exports.					
BATTERY					
<ul style="list-style-type: none">• Lead acid, lithium-ion, and nickel-cadmium batteries supported, as well as third-party lithium-ion battery monitoring (via Protocol Bridge Peripheral).• EnVision™ Connect system.• Battery management: Charge current control, runtime and health estimations, equalize, absorption, temperature compensation, and battery tests.					
SECURITY					
<ul style="list-style-type: none">• Remote authentication with RADIUS or TACACS+ and local accounts with five levels of assignable privilege levels.• HTTPS remote web server support.• SNMPv3 support.• Application software and operating system integrity and authenticity verified through cryptographically signed software upgrades.• Password recovery and configurable strength, and sign-in system use notifications.					
SYSTEM I/O PERIPHERALS					
Model	CXC-HP L-ADIO	CXC-HP 6i-ADIO	CXC-HP HV-ADIO	Cordex® CT-IPM	Protocol Bridge Peripheral
PN	0180039	0180051	0180057	0180028-001	0180094-014
Input Voltage	10 to 60 VDC	10 to 60 VDC	90 to 300 VDC	10 to 60 VDC	20 to 60 VDC
Dimensions H x W x D	7.9 x 3.3 x 1.2 in. (200 x 84 x 30 mm)	5.2 x 3.3 x 1.2 in. (131.3 x 84 x 30 mm)	7.8 x 3.3 x 1.5 in. (198 x 84 x 38 mm)	5.1 x 3.3 x 1.2 in. (131.3 x 84 x 30 mm)	5.2 x 3.3 x 1.2 in. (131.3 x 84 x 30 mm)
Net Weight	0.6 lb (0.27 kg)	0.44 lb (0.20 kg)	2 lb (1 kg)	0.35 lb (0.16 kg)	0.4 lb (0.2 kg)
Voltage Inputs	4 BiV (–60 to 60 VDC)	–	2 (±300 VDC)	–	–
Current Shunt Inputs	4 (25 to 200 mV)	6 (25 to 200 mV)	1 (25 to 200 mV)	–	–
Temp. Inputs	4	–	2	–	–
Digital Inputs	8 (60 VDC rated)	–	4 (Contact closure detect - 5 VDC max.)	–	–
Relay Outputs	12 (Form C, 60 VDC rated)	–	6 (Form C, 220 VDC 50 W max.)	–	–
Analog Outputs	–	–	–	DCCT output ±200m VDC ACCT output 0 to 200m VDC	–
DCCT Current Inputs	–	–	2 (±10 VDC)	–	–

EVERYTHING ***Connected***

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0480097-00 Rev A 03/2025