



EnVision™ Elite Touch controller



- **Enhanced Operations:** Optimize power conversion systems, energy storage, and site management for operational control and visibility.
- **Future-Ready Design:** Linux-based OS with high-performance processor to support future IoT demands.
- **Uncompromising Security:** Designed in accordance with the IEC 62443-4-2 standard.
- **Zero Trust Enabled:** Built for Zero Trust Network architectures with embedded secure elements.
- **Seamless Transition:** Backward-compatible technology for smooth integration with legacy power systems.
- **Holistic Integration:** Fully interoperable with the EnVision™ ecosystem for enabling customers to leverage unparalleled performance and insights.
- **Flexible Network Connectivity:** Integrates easily with third-party management systems and service toolkits for tailored solutions.

Revolutionizing Connectivity, Security, and Lifecycle Management

The EnVision™ Elite Touch controller isn't just a product—it's a transformational approach to infrastructure management. Designed to address evolving ecosystem challenges, it integrates hardware, software, and firmware into a seamless platform, redefining connectivity and intelligence.

Unlike traditional controllers, the EnVision™ Elite Touch controller operates as a dynamic neural network. Guided by four pillars—Control, Sense, React, and Explore—it empowers organizations to:

- **Anticipate demands** with real-time sensing and adaptive responses
- **Simplify operations** through seamless connectivity and intuitive management
- **Enhance security** with advanced features to mitigate risks before they occur

Why settle for reactive systems? The EnVision™ Elite Touch controller delivers:

- **Expert-level performance** across the full lifecycle—from installation to replacement
- **Unmatched reliability** rooted in rigorous principles and standards
- **Future-ready scalability** to adapt to evolving demands

This isn't just an incremental improvement. This is a bold rethinking of how ecosystems connect, communicate, and evolve. With the EnVision™ Elite Touch controller, you'll improve performance and redefine security, operational excellence, and long-term value.

Take the lead in shaping the future of intelligent infrastructure management with the EnVision™ Elite Touch controller.

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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) proximity.
Redundant Power Input	Auxiliary power input connector
Electrical	
Input Voltage	12 to 60 VDC
Input Power	10W
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 Wi-Fi 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 10/100/1000 BASE-T ports
USB	Two USB 2.0 ports
Wireless Antenna	Detachable 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)
Mounting	Panel mount, 3RU rack mount assembly, DIN rail mount kit
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)
Elevation	Up to 13,124 ft (4,000 m)
Relative Humidity	5% to 95% non-condensing

Regulatory Compliance	
Safety	IEC 62368-1 (CE Mark), CSA/UL 62368-1
EMC	FCC CFR47 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 10 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 real-time clock temporarily in the event of a 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 the Cordex® HP Protocol Bridge peripheral).EnVision™ Connect system monitor.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	Cordex® HP L-ADIO Peripheral	Cordex® HP 6i-ADIO Peripheral	Cordex® HP HV-ADIO Peripheral	Cordex® CT-IPM	Cordex® HP 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 × W × D	7.9 × 3.3 × 1.2 in. (200 × 84 × 30 mm)	5.2 × 3.3 × 1.2 in. (131.3 × 84 × 30 mm)	7.8 × 3.3 × 1.5 in. (198 × 84 × 38 mm)	5.1 × 3.3 × 1.2 in. (131.3 × 84 × 30 mm)	5.2 × 3.3 × 1.2 in. (131.3 × 84 × 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)	—	—
Temperature Inputs	4	—	2	—	—
Digital Inputs	8 (60 VDC rated)	—	4 (Contact closure detect · 5 VDC maximum)	—	—
Relay Outputs	12 (Form C, 60 VDC rated)	—	6 (Form C, 220 VDC 50 W maximum)	—	—
Analog Output	—	—	—	DCCT output ±200 mVDC ACCT output 0 to 200 mVDC	—
DCCT Current Inputs	—	—	2 (±10 VDC)	—	—



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