EPIQ

EPIQ RADAR™

EPIQ RADAR Hub

Smarter Detection, Seamless Communication

The EPIQ RADAR™ detection system is Econolite's cutting-edge solution for full-spectrum intersection intelligence. Designed to detect vehicles, pedestrians, and other roadway objects with pinpoint accuracy, EPIQ RADAR uses wide-angle, long-range sensors to deliver complete coverage from stop bar to advance detection—all with just two sensors for most intersections.

At the heart of the system is the EPIQ RADAR Hub, a compact powerhouse driven by an Intel quad-core i7 processor. It's built for speed, flexibility, and effortless integration, featuring a sleek LCD display, built-in power supply, and plug-and-play compatibility with NEMA TS2 SDLC, ATC/ITS SDLC, LAN/WAN Ethernet, and more.

Whether you're upgrading legacy systems or building smarter intersections from the ground up, EPIQ RADAR delivers the performance, precision, and simplicity you need to stay ahead.

Key features

- LCD touchscreen display provides real-time system feedback
- Quad-core i7 processing power for lightning-fast performance
- Connect up to four EPIQ RADAR sensors for expanded coverage
- Seamlessly integrates with various cabinet types and communication interfaces
- Quick setup and intuitive operation

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EPIQ RADAR Hub: Smart connectivity that goes the distance

Say goodbye to complicated cabling and hello to streamlined, high-speed communication. The EPIQ RADAR™ Hub uses advanced Power Line Communications (PLC) to deliver 10/100 Ethernet connectivity to EPIQ RADAR sensors—up to 1,000 feet (300 m) away using a simple shielded AWG 14/2 cable. With blazing speeds of up to 88 Mbps, your detection data moves fast and reliably. EPIQ RADAR sensors continuously transmit vehicle and pedestrian detection data to the Hub via PLC. The Hub then transforms this data into NEMA TS2 and ATC SDLC messages, ensuring seamless integration with your traffic controllers.

Built for Smarter Operations

- High-resolution logging for deep traffic insights
- Traffic Manager software interface for easy configuration and diagnostics
- Flexible port design for hassle-free installation

Clever Port Mapping

To simplify wiring in tight cabinet spaces, the EPIQ RADAR Hub features mirrored PLC port pairs.

- PLC #1 = PLC #5
- PLC #2 = PLC #6
- PLC #3 = PLC #7
- PLC #4 = PLC #8

This smart design lets you connect sensors at the front or back of the Hub—perfect for adapting to any cabinet layout or wiring constraint.

EPIQ RADAR Hub key components

- Eight PLC channel connectors (two per PLC channel), with four in the front and four in the back
- Intel quad-core 1.7GHz i7 processor module, plus a separate 300 MHz I/O processor
- One 25-pin ATC-compatible C12S connector provided for NEMA Port 1 and ATC SDLC interfaces
- LCD touchscreen display with a graphical user interface for easy configuration and status monitoring
- Ethernet connectivity and built-in 48VDC @ 600W and 12VDC @ 150W power supplies
- One 10/100 Ethernet port (LAN), one 1G Ethernet port (WAN), two USB ports, and one SD card slot
- One micro-USB port for serial communication

Specifications	EPIQ RADAR Hub
Compliance	• FCC Part 15 Subpart B, Class A • NEMA TS2: Compliant for temperature range, voltage, transients, vibration and stock
Dimensions	9.0" L x 4.25" W x 9.5" H (229 mm x 108 mm x 241 mm)
Mounting Information	Shelfmount
Operating Temperature	-34.6°F to +165.2°F (-37°C to +74°C)
Operating Voltage	85 VAC to 265 VAC
Weight	8.5 lbs. (3.855 kg)

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