

E3

ENTERPRISE 3

An EPIC-native RAIN RFID reader

Amazing breadth of Performance. Most Secure. Built to Last.

The Reader That Does More with Less

The E3 represents the next generation of SensThys' SensArray family. It combines our highest-performance reader electronics with an integrated 9.0 dBic broadband antenna, a built-in PoE++ network switch, native EPIC data integrity, native sensor capability and industrial-grade reliability — all in a sleek 10" × 10" form factor that installs in minutes and blends into any environment.

Where other readers require racks of switches, separate power systems, and external GPIO modules, the E3 packages it all in one. One cable in. Everything connected. Everything secure.

Why E3?

★ GUARANTEED DATA — ALWAYS RIGHT

EPIC, our patented data-integrity protocol, continuously verifies and corrects tag memory. Bad data never reaches your system. Ever. Combine EPIC with the E3's Impinj E710 reader IC and you get the most reliable inventory data in the market.

★ SIMPLIFY EVERYTHING

The E3's integrated PoE++ switch powers other readers and PoE devices directly — no extra switches, no extra cables, no extra cost. Customers report up to 50% reduction in installation cost compared to traditional multi-reader deployments.

★ SENSE BEYOND RFID

The E3 natively reads passive sensor tags — no extra hardware required. Monitor moisture, temperature, strain, and composite cure state using standard passive RFID infrastructure.

★ SECURE BY DESIGN

Bare-metal firmware means no operating system — no shell, no CVEs. The E3 is the only RFID reader with a published NIST 8259A IoT security compliance report. When IoT security matters, E3 is the only choice.

★ BUILT FOR THE HARSHTEST CONDITIONS

Rated from -40°C to +50°C non-condensing, the E3 is ready for global deployment. Configurable as flat wall-mount or VESA pole-mount. Built for where the work actually happens.

E3 At a Glance

Reader IC	Impinj E710 (latest generation)
TX Power	+31.5 dBm
Integrated Antenna	9.0 dBic RHCP broadband, 860–930 MHz
Network Ports	4× RJ-45 + USB-C (external device control)
Operating Temperature	-40°C to +50°C
Form Factor	10" × 10" × 1.4" — flat or VESA mount
Control and Communication	AutoSens, RESTapi, MQTT, .NET
Security	Bare-metal firmware, NIST 8259A compliant
Status LED	Multi-mode: boot, idle, per-antenna read status, server connection, firmware update progress
GPIO	4-in, 4-out, optically isolated. Supplies 24V power

Use Cases

Warehousing and Distribution

Track inventory, manage dock doors, and automate put-away and pick verification. E3's integrated PoE switch means dock-door portals connect to a single cable. EPIC guarantees clean data into your WMS. GPIO controls dock door lights, conveyors, and alerts.

Advanced Manufacturing

Monitor materials, WIP, and tooling as products move through your process. Passive sensor tags report cure state and moisture directly through the E3 — no additional sensor infrastructure. AutoSens enables autonomous line control without a host application.

Offices and Labs

Track equipment, laptops, and valuable assets with a reader that blends seamlessly into any environment. E3's neutral aesthetic and slim wall-mount profile makes it ideal for professional spaces.

Events and Access Control

Fast, reliable reads at entry points with GPIO-driven access control. E3's speed and Impinj E710 performance handles high-density tag environments that challenge lesser readers.

Ready to expand your RFID capability?

Contact us: www.sensthys.com/contact | info@sensthys.com

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