

Enterprise

An EPIC Native Reader



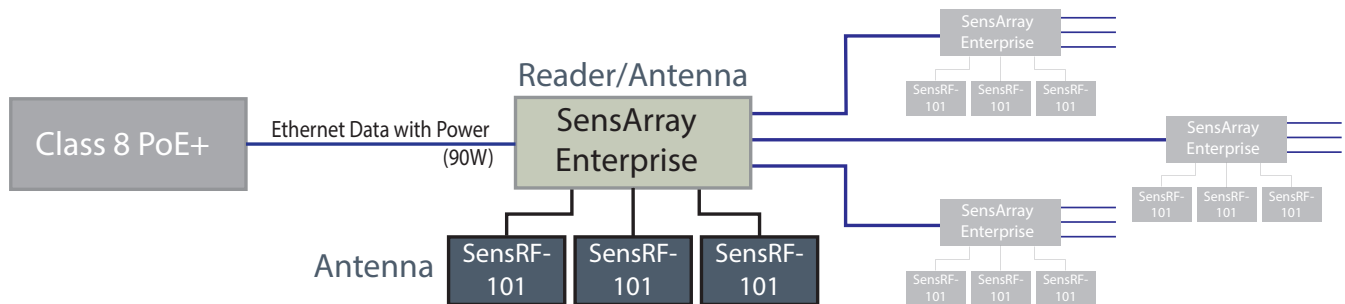
The 4th generation *Enterprise* is an **EPIC native** RAIN RFID reader incorporating an internal 8.5dBic antenna, and a network switch with an integrated **power distribution** system. These features combined into a sleek, attractive 10" x 10" form factor massively reduce infrastructure and installation costs.

Unique to this reader:

- Inherent security
- Native EPIC support
- Embedded passive sensor capability
- RESTful programming
- 4-in, 4-out powered GPIO
- Industry-leading 33 dBm power
- Integrated antenna with 3 additional ports
- Integrated PoE switch

Unlike other readers, the *Enterprise* passes power **out** to any additional PoE devices in the network **including other SensThys readers** massively reducing cabling and installation costs.

The reader is supplied as a flat/through-hole mount with a separate VESA 100mm studded bracket available (allowing mounting to a standard VESA mount). Variants for international regions are available.



Benefit?	How?	What Does This Mean For Me?
Absolutely guarantee data	EPIC tags are natively decoded (level 2 and Level 4). Fixes data corrupted within the tags memory AND during transmission.	Never see bad data from your tags. Infinite tag lifetime
Inherently secure	Passed penetration testing with zero vulnerabilities. No operating system to target. NIST 8259 Compliance report available.	Reduced attack surface minimizing opportunities for hacking or data theft.
Full passive sensor support	Unique read algorithms provide more accurate data from passive sensor tags that report on physical status of materials.	Accurate reporting of temperature, moisture, composite resin curing etc
Web service programming	RESTful support in addition to C#,Java and SensThys automated reader operation (AutoSens)	Simple programming and fast time to market.
Excellent connectivity	Four 90W PoE ports to network other readers and devices	Simple reader-to-reader connectivity minimizing install costs & labor. No external GPIO box required.
	Up to 25 readers/chain for large networks (100 read-points)	
	GPIO connection delivers 30W to peripherals	
Performance	+33 dBm transmit power, highest allowed in the market	Reliable read performance and faster results.
	Integrated antenna (8.5 dBic) plus up to 3 additional antenna ports	
Reduced operational and capital costs	Built-in Ethernet switching and integrated PoE power distribution	Reduced cost and complexity due to fewer system components and cabling.
	"All-in-one" unit with additional ports for expansion capability	
Building and Community - friendly form factor	Neutral colored, Slim form-factor only 21mm/0.8" thick. Color and silk screening is customizable.	Seamlessly blends into the office/store environment.

Power and Interface Specifications

Parameter	Specification
Data Interface	TCP/IP (RJ-45), 4 ports
PoE Interface	4 ports; PoE+ Class 8 (90W input), PD on Port 0
Power Injector/Supply	PoE+ injector, PN SPOEgoWC8;
GPIO	4 input/4 output, provides 24 vdc, 1.25A (30 W)
Software Support	APIs, DLL, sample code, SensThys RFID Console
Power Consumption (33 dBm, Idle)	13W, 3W
Maximum powered chain length, with one unit at 30 dBm	26, with SensThys power injector

RF Specifications

Parameter	FCC	ETSI
Reader Architecture	M-Power	
Reader Protocol	EPC Class 1 Gen 2v2 and 18000 – 6C/63	
Operating Frequency	902.75 MHz – 927.25 MHz	865.6 - 867.6 MHz
Hopping Channels	50	4
Channel Spacing	500 KHz	600KHz
Channel Dwell Time	< 0.4 seconds	
RF Transmitter Power	< +33 dBm	
Modulation Methods	PR-ASK, DB-ASK	
20 db Modulation Bandwidth	< 100 KHz	
Internal Antenna	8.5 dBic, right-hand circular	
External Antenna ports (SensArray Enterprise and Pro)	3 x RP -SMA connectors	

Physical and Environmental Specifications

Parameter	Specification
Dimensions	(cm) 25.4 x 25.4 x 2.0 · (in) 10 x 10 x 0.8
Weight	Approximately 0.79 kg (1.73 lbs)
Operating Temperature	0C to +50C (for 20% average duty cycle)
Maximum Duty Cycle (30dBm)	50% at 35C, 30% at 45C, 20% at 50C
Operating Environment	0 to 50C, non-condensing
Compliance Certifications	FCC Part 15; FCCID: 2ANPR-M-PWRSENS; IEC 60950-1

ORDERING INFORMATION

Model	Region	Flat Mount SKU	VESA Mounting
SensArray Enterprise	North America	SE24370-FR	Add VESA Mount Bracket Model # SAA1
	Europe	SE24370-ER	
	Other regions available		