SensArray® *Enterprise*

An EPIC Native Reader

SensThys®
Sense This World

The 4th generation SensArray *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 svlete, attractive 10" x 10" form factor massively reduce infrastructure and installation costs. The SensArray Enterprise operates at a full industry maximum of +33dBm via the **90W Class 8 PoE** input, so no separate DC power input is required.



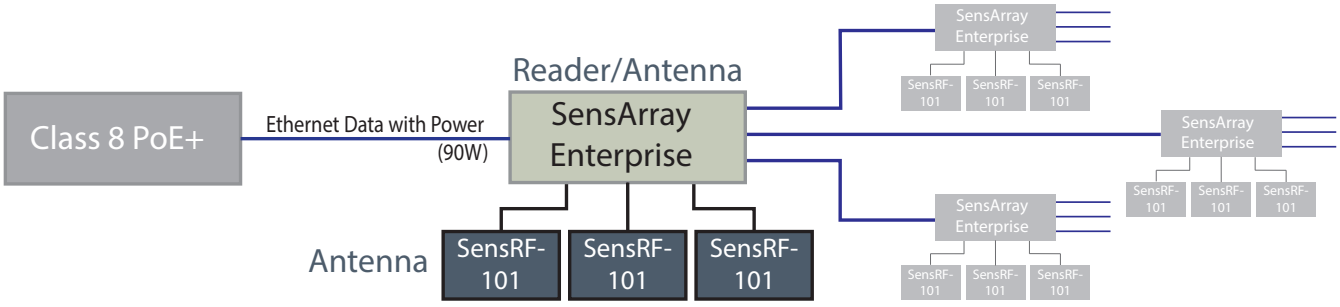
This is an **EPIC native reader** which offers:

- Guaranteed Data
- Infinite Tag Life

Unlike other readers, the SensArray *Enterprise* passes power **out** to any additional PoE devices in the network **including other SensArray readers** massively reducing cabling and increasing install flexibility.

EPIC™
Always Right

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. Call or visit our website for the latest.



Benefit?	How?	What Does This Mean For Me?
Absolutely guarantee data from your RFID system	EPIC tags are natively decoded by this reader. This reader supports both Level 2 and Level 4 EPIC decoding. Fixes data corrupted in the tags memory AND during transmission.	**Never** see bad data from your tags. **Never** see phantom/ghost tags. **Extend** the lifetime of your tags
Excellent enterprise connectivity for wide variety of sensors and peripherals	Four (4) PoE ports, accepts Class 8 (90W) for extended networking with additional SensArray readers and other PoE devices	Widest variety of devices, now including higher wattage devices, can be connected with just CAT5/6 cabling, simplifying power cabling and distribution.
	Up to 25 readers/chain for large networks (100 read-points)	
	GPIO connection delivers 30W to peripherals	
Highest Reader Performance	+33 dBm transmit power, highest allowed in the market	More reliable read performance means less errors and faster results - much more efficient operation!
	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 system for robust performance over simple or complex networks	Reduced cost and complexity due to simple CAT5/6 cabling, fewer reader components and switching and distribution intelligence that are already built-in for existing and future requirements.
	"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.	Seamless addition to work environment.

Specifications are subject to change without notice.

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 SPOE90WC8;
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)	10W, 3.W
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: TBD; IC: TBD; IEC 60950-1

ORDERING INFORMATION - Order at https://www.sensthys.com/shop/

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		

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