

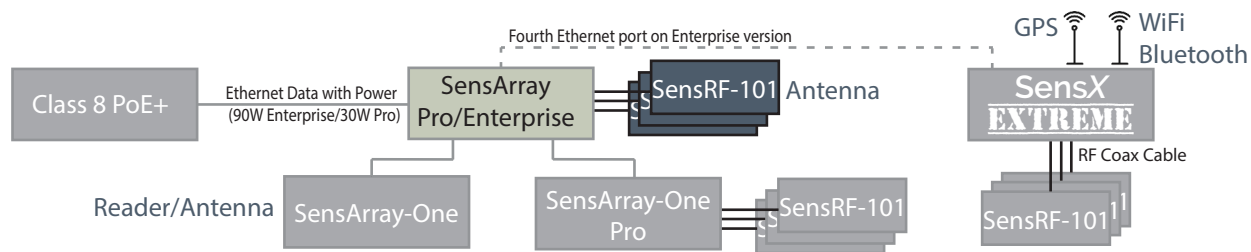
SensArray® Pro/Enterprise



The new SensArray Pro and Enterprise readers combine one of the strongest, fastest UHF passive RFID readers with an integrated 8.5dBic antenna in a svelte, attractive 10" x 10" form-factor. 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. The SensArray-Pro operates at 30dBm with Class 4 30W PoE input.

Unlike other enterprise readers, the SensArray Enterprise supports powering up to 26 additional readers in a single chain, so operators can configure vastly larger networks with even less installation effort and cost.

Both are available in flat/through-hole mounting or VESA 100mm studded mounting.



Benefit?	How?	What Does This Mean For Me?
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 26 readers/chain for large networks	
	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!
	Industry-leading unique tag read-rates	
	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	
	SensArray Pro (3 x PoE ports) offers lower cost with same reader performance as SensArray Enterprise	
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.

TWO (OR MORE) VARIANTS TO SELECT FROM

Name	Readers/Chain	PoE	Ethernet Data	GPIO	Antenna Ports	DC input
SensArray Enterprise	up to 26	4 (Class 8 PoE - 90 W)	4 x RJ-45	4 in, 4 out, 30 W	3 x RP-SMA	No
SensArray-Pro	up to 5	3 (Class 4 PoE - 30 W)	3 x RJ-45	4 in, 4 out, 15 W	3 x RP-SMA	Yes

For variants with more or less features, please explore the SensX Extreme, SensArray-One Pro and SensArray-One.

Power and Interface Specifications

Parameter		Specification
Data Interface		TCP/IP (RJ-45), 3 or 4 ports
PoE Interface	Enterprise	4 ports; PoE+ Class 8 (90W input), PD on Port 0
	Pro	3 ports; PoE+ Class 4 (30W input) PD on Port 0; 56 vDC input
Power Injector/Supply		PoE+ injector, PN SPOE2gWC4; DC Power supply, PN SPS75W56VDC
GPIO	Enterprise	4 input/4 output, provides 24 vdc, 1.25A (30 W)
	Pro	4 input/4 output, provides 24 vdc, .650 mA (15 W)
Software Support		APIs, DLL, sample code, SensThys RFID Console
Power Consumption (33 dBm, Idle)	Enterprise	10W, 3W
	Pro	9W, 3 W
Maximum powered chain length, with one unit at 30 dBm	Enterprise	26, with SensThys power injector
	Pro	5, with SensThys DC power supply; 4, with SensThys PoE+ injector

RF Specifications

Parameter	FCC	ETSI
Reader Architecture	Impinj R2000 Platform	
Reader Protocol	EPC Class 1 Gen 2 and 18000 - 6C	
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
	Safety tested to unified 60950-1 (CB Report)

Specifications are subject to change without notice.

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

Model	Region	Flat Mounting	VESA Mounting
SensArray Enterprise	North America	SE24370-RFF	Add VESA Mount Bracket Model # SAA1
SensArray Pro	North America	SP13350-RFF	
SensArray Enterprise	Europe	SE24370-REF	
SensArray Pro	Europe	SP13350-REF	

SensThys, Inc · 21060 Homestead Road · Suite 226 · Cupertino · CA 95014 · www.sensthys.com