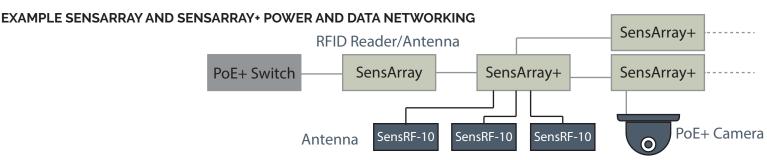
SensArray® Series





The SensArray® family are disruptive solutions designed to elegantly implement networked RFID solutions at dramatically lower costs. The SensArray achieves this by using functional integration to attack the expense and complexity of installation while simultaneously lowering hardware costs. The SensArray platform combines Ethernet switching and an integrated PoE power distribution system with a high performance integrated RFID reader/antenna.



What Does This Do For Me	How?	
Minimizes Installation Cost	Integrated Power System	
	Can be powered by its nearest neighbor	
	Same cable provides power and data (to/from its neighbor)	
	Minimizes cable runs to the central switch	
	Dramatic reduction of conduit and cable	
Minimizes Hardware Cost	Low cost per read point	
	Integrated antenna	
	Drives up to 3 additional antenna	
Simple Project Expansion/Contraction	Add by connecting CAT5/6 to nearest reader	
	Remove by disconnecting from its neighbor	
Easily Add Peripherals	PoE+ powered SensArray+ can power GPIO peripherals	
Inconspicuous and Blend In	Slim form-factor only 21mm/0.8" think	

TWO VARIANTS TO SELECT FROM

The SensArray family comes in the base SensArray product or the full-featured SensArray+. Both products incorporate the unique power and data distribution allowing these to be routed between multiple SensArray products. The base unit has two Ethernet ports for this purpose and no other I/O. The SensArray+ adds an additional Ethernet port (3 in total) for more complex/robust network topologies, GPIO (power from DC or PoE+), an option for DC power source and finally adds three antenna connections.

Name	DC Power	Ethernet Ports	GPIO	SMA Antenna Ports
SensArray	No	2	No	No
SensArray+	Optional	3	Yes (4 in, 4 out)	3



Power and Data

Feature	Specification
Data Interface	TCP/IP (RJ-45), 2 ports (3 on SensArray+)
POE+ (Class 4)	PD on Port o
	PSE on Ports 1 & 2 (SensArray+)
	PoE+ injector, PN SPOE29WC4
DC power input (SensArray+)	56VDC input
	DC power supply, PN SPS75W56VDC
Software Support	APIs, DLL, sample code, RFID Console
Power Consumption (3odBm, Idle)	9W, 3W
Maximum powered chain length, with one unit at 30 dBm	4, with the SensThys power injector
	5, with the SensThys DC power supply
GPIO (SensArray+)	4 input, 4 output, provides 24 VDC, 0.6A

RF

Feature	Specification
Reader Architecture	Impinj R2000 Platform
Reader Protocol	EPC Class 1 Gen 2 and 18000 – 6C
Operating Frequency	902.75 MHz – 927.25 MHz
Hopping Channels	50
Channel Spacing	500 KHz
Channel Dwell Time	< 0.4 seconds
RF Transmitter	< 30 dBm
Modulation Methods	PR-ASK, DB-ASK
20 db Modulation Bandwidth	<100 KHz
Internal Antenna	8.5 dBic, right-hand circular
External Antenna (SensArray+)	3 x RP SMA connectors

PHYSICAL and ENVIRONMENTAL

Feature	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	oC to +50C (for 20% average duty cycle)	
Maximum Duty Cycle (30dBm)	50% at 35C, 30% at 45C, 20% at 50C	
Operating Environment	o to 50C, non-condensing	
Compliance Certifications	FCC Part 15; FCCID: 2ANPR-SENSARRAY	
	IC: 23135-SENSARRAY	
	Safety tested to unified 60950-1 (CB Report)	

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

Model	Region	Mounting Option	Part Number
SensArray	North America	Flat	S32000FF
SensArray	North America	Studded 100mm VESA	S32000FV
SensArray+	North America	Flat	S33111FF
SensArray+	North America	Studded 100mm VESA	S33111FV
SensArray/SensArray+	Europe, Middle East, Africa	All	Coming Soon

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