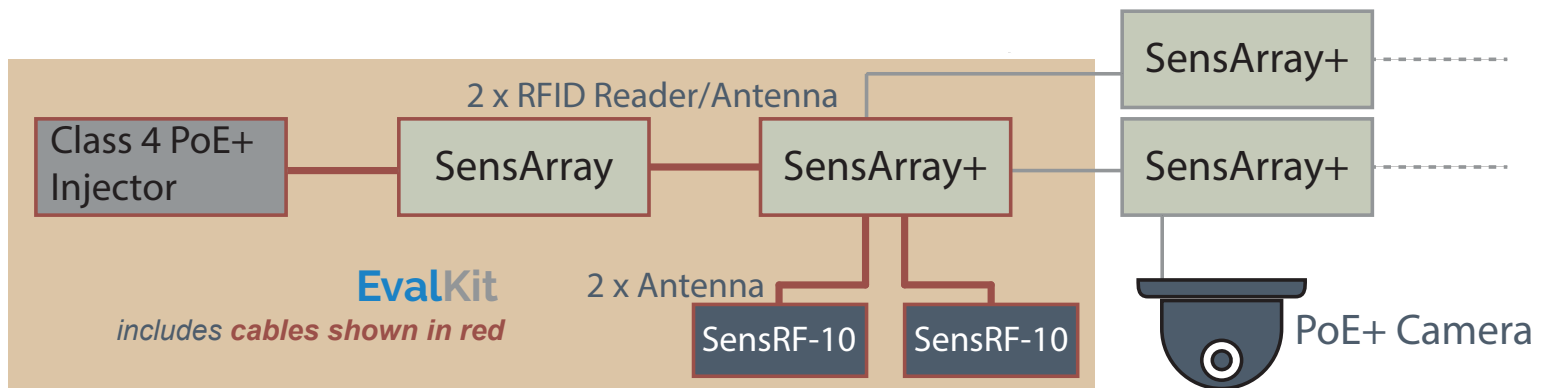




The **EvalKit®** is a 4-read point kit that includes two “readers” (reader, antenna and network switch) and two additional antenna for the purpose of exploring the benefits of the SensArray® architecture including the ability to daisy-chain power and data. The kit comprises of a SensArray, a SensArray+, two SensRF-10 antenna, the recommended PoE+ Injector and all the required cables. The SensArray is a disruptive solution designed to elegantly implement networked RFID solutions at dramatically lower costs. This kit, clearly demonstrates network simplicity and low infrastructure cost.

EVALKIT CONTENTS (Highlighted Inside a SensArray Network)



Description	Included in EvalKit
SensArray (S32000FF)	1
SensArray+ (S33111FF)	1
SensRF-10 Antennas	2
Antenna cabling (SANTCABLE-6)	2
Ethernet Cat6 cabling (SCAT6-10)	2
POE+ Injector (SPOE29WC4)	1

Power and RF

Feature	Specification
Data Interface	TCP/IP (RJ-45), 3 ports
POE+ Class 4	RJ-45, PD on Port 0, PSE on Port 1 (and 2 on SensArray+) PoE+ injector, PN SPOE29WC4
DC power input	56VDC input DC power supply, PN SPS75W56VDC
Software Support	APIs, DLL, sample code, RFID Console
Power Consumption (30dBm)	9W typical
Power Consumption (Idle)	3W typical
Max chain length, one unit 30 dBm	4, with the SensThys power injector 5, with the SensThys DC power supply
Reader Architecture	Impinj R2000 Platform
Reader Protocol	EPC Class 1 Gen 2 and 18000 – 6C
Operating Frequency	902.75 MHz – 927.25 MHz
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 Antennas	2 x SensRF – 10, 8.5 dBic, right-hand circular

SensArray Physical and Cabling

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	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
Ethernet	10 ft of Cat6, low-loss, white
Antenna	3 RP SMA cables, 6 ft, labeled
Compliance Certifications	FCC Part 15; FCCID: 2ANPR-SENSARRAY IC: 23135-SENSARRAY Safety tested to unified 60950-1 (CB Report)

EvalKit

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