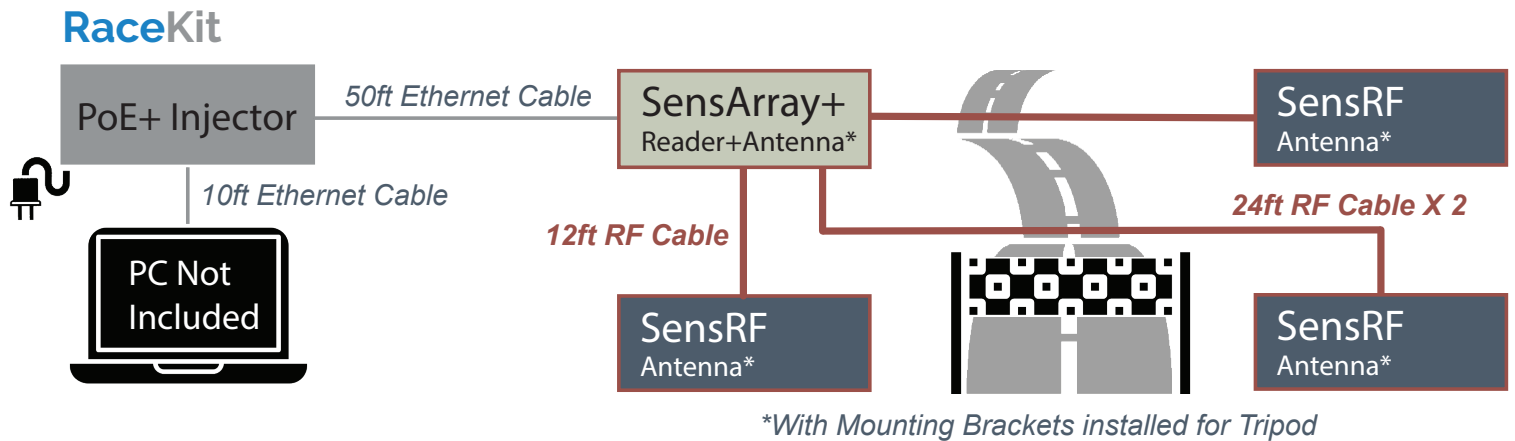




The RaceKit™ is a 4 read-point kit specifically designed for race timing applications. It includes the SensArray®+ and all additional antenna and color coded cables required to create a complete 4-read point finish-line solution. The kit includes the reader (with embedded antenna), 3 additional antenna (totals 4 with the readers internal antenna), two long (black) RF cables for the far side of the finish line, one short (white) RF cable for the near side antenna and the PoE+ power injector that supplies power into the reader (with the required Ethernet cables and power cables).



Description	Included in RaceKit*
SensArray+ (S33111FV) with tripod bracket installed	1
SensRF <i>weather resistant</i> antennas with tripod bracket installed	3
24ft black antenna cable (for far side antenna)	2
12ft white antenna cable (for near side antenna)	1
50ft Ethernet cat6 cable (Injector to reader)	1
10ft Ethernet Cat6 cable (PC to injector)	1
POE+ (Class 4) injector (Injects power onto Ethernet cable)	1
Power cable for PoE+ Injector	1
Rain cover for SensArray	1
UHF passive RFID tags (for testing system after set-up)	5

* Does not include tripod or UPS backup

Power, RF and Software

Feature	Specification
Data Interface	TCP/IP (RJ-45), 3 ports
POE+ Class 4	RJ-45, PD on Port 0, PSE on Ports 1 and 2 PoE+ injector, PN SPOE2gWC4
DC Power Input	56VDC input Optional (not supplied) DC power supply, PN SPS75W56VDC
SensThys Software Support	APIs, DLL, sample code, RFID Console. SDK's: .Net, Ruby, Java.
Agee Race Timing ART/RSU Software (not supplied)	Available from http://www.ageeracetiming.com/
Power Consumption (30dBm)	9W typical
Power Consumption (Idle)	3W typical
Max Chain Length With One Unit at 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	3 x SensRF – 10, 8.5 dBic, right-hand circular

* Currently FCC/US frequencies only

Physical and Cabling

Feature	Specification
Dimensions (reader)	(cm) 25.4 x 25.4 x 2.0 • (in) 10 x 10 x 0.8
Weight (reader)	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	1 x 50 ft and 1 x 10ft of Cat6, low-loss, white
Antenna	3 RP SMA cables, 1x12 ft (white), 2x24ft (black) labeled (reader/antenna)
Compliance Certifications	FCC Part 15; FCCID: 2ANPR-SENSARRAY IC: 23135-SENSARRAY Safety tested to unified 60950-1 (CB Report)

ORDERING AND RACEKIT CONFIGURATION - <https://www.sensthys.com/shop/>



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