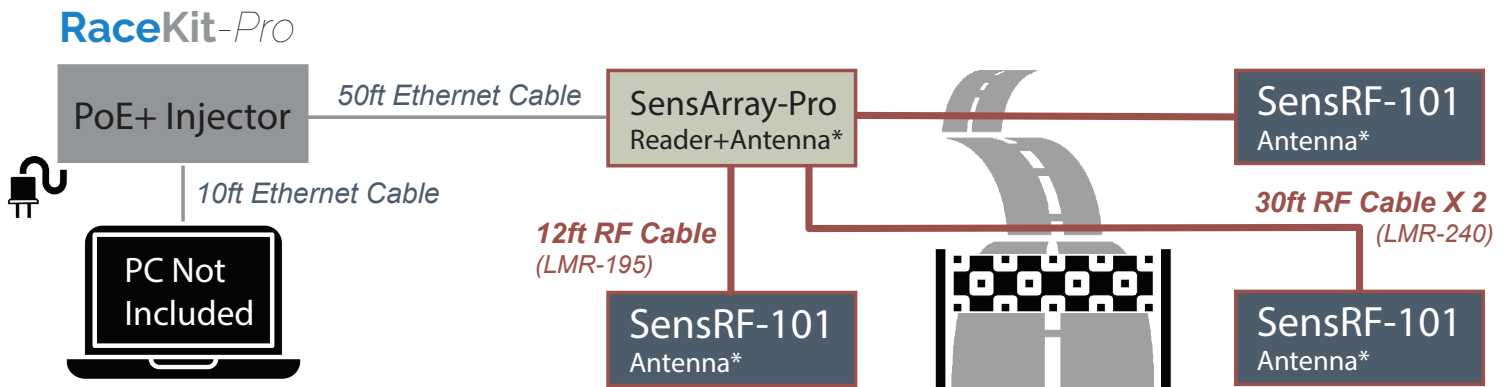




The RaceKit-Pro is a complete* 4 read-point UHF Passive RFID kit in a re-usable corrugated plastic box. Specifically designed for race timing applications it includes the SensArray®-Pro Reader, all additional antenna, tripods and color coded cables required to create a complete 4-read point start or finish-line solution. The kit includes the reader (with embedded antenna), 3 additional antenna (totals 4 with the readers internal antenna), 4 tripods, two long RF cables for the far side of the finish line, one short 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). These are all supplied in a reusable plastic container to protect from the elements with reusable foam inserts to protect the equipment between races. The tripods come in a draw string bag separate from the carry case.

* Does not include a UPS backup



*With Mounting Brackets installed and Tripods included

Description	Included in RaceKit*
SensArray-Pro (SP13350) with tripod bracket installed	1
SensRF-101 <i>weather resistant IP67</i> antennas with tripod bracket installed	3
Tripods for antenna and SensArray-Pro and a draw string bag	4 (in draw string bag)
30ft antenna cable (for far side antenna)	2
12ft 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-Pro	1
Reusable corrugated plastic case with foam inserts and handle	1
UHF passive RFID tags (for testing system after set-up)	5

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 Protocol	EPC Class 1 Gen 2 and 18000 – 6C
Operating Frequency	902.75 MHz – 927.25 MHz*
RF Transmitter	< 33 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-101, 9 dBic right-hand circular IP67 with polycarbonate radome

* 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-M-PWRSENS IC: Coming soon... Safety tested to unified 60950-1 (CB Report)

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



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