





The new SensX EXTREME rugged reader is Sens-Thys' highest performance RFID reader enclosed in the industry's highest rated IP67 industrial and weather-tight chassis for harsh environments. Operators can now install RFID reader networks in places where traditional readers have previously not been suited.

In addition to RFID, SensX includes multiple sensors, including Bluetooth, WiFi, gyroscope, 3-axis accelerometer, barometer, and GPS. Finally a complete Linux subsystem supports local tag processing and business intelligence.





RAIN REID



BLE REACONS











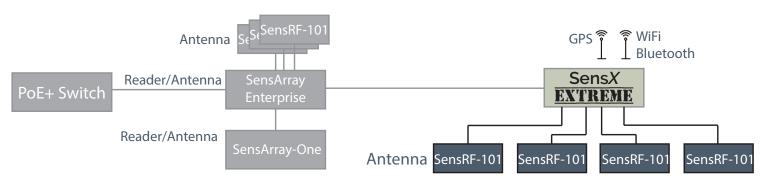
CONNECTIVITY



SENSORS

PRESS

#### EXAMPLE OF SENSX EXTREME IN A NETWORK WITH SENSARRAY AND SENSRF ANTENNAS



Key Features	How?	
Deployment Flexibility in ANY commercial or industrial location	IP67 -rated weather-tight enclosure	
	Rugged IP67 water and dust proof connectors	
	Integrated heat-sink supports extended operating range	
Highest Reader Performance	+33 dBm - highest transmit power reader in the market	
	Industry leading unique-tag read-rates	
	Drives up to 4 external antennas	
Multiple Wired and Wireless I/O and Internal Sensors	WiFi (802.11 a/b/g/n/ac )	
	Bluetooth BT4.1 (BR+EDR+BLE) e.g. BT beacons or BT tags	
	GPS for location and altitude	
	Gyroscope, accelerometer, barometric pressure sensors	
Complete weather-tight RFID Reader network	Supports IP68-rated SensRF-101 (9 dBic) (not supplied)	



## **Power and Interfaces Specifications**

Feature	Specification
Ethernet - Data and Power	TCP/IP; Rugged IP67 (RJ-45) accepting Class 4 PoE
Antenna RF	+33 dBm max; Rugged IP67 4 x RP-TNC with cap and chain
WiFi and Bluetooth	802.11a/b/g/n/ac (2.4 and 5 GHz), Bluetooth 4.1 (BR+EDR+BLE); Rugged IP67 RP-SMA with cap and chain (antenna not included)
GPS	GNSS; Rugged IP67 SMA with cap and chain (active antenna not included)
GPIO	2 input, 2 output; Rugged IP67 6-pin circular male pin connector with dust cap
USB	USB 2.0 Host; Rugged IP67 Mini-USB with dust cap

## **Reader and RF Specifications**

Feature	Specification	
Reader Architecture	M-Power	
Reader Protocol	EPC Class 1 Gen 2v2 and 18000 - 6C/63	
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	

#### **Physical and Environmental Specifications**

Feature	Specification	
Dimensions (l - w -h) including interfaces	(mm) 240 x 125 x 55 · (in) 9.4 x 4.9 x 2.1	
Weight, including interfaces	Approximately 1120 g (2.46 ibs)	
Operating Environment	-40°C to 50°C, 100% humidity	
Compliance Certifications	IP67-rating (enclosure)	

#### **Software**

Feature	Specification
User Interface	SensThys RFID Console
SDKs	VB.Net, C# and Java

Specifications subject to change without notice.



# ORDERING INFORMATION - Order at <a href="https://www.sensthys.com/shop/">https://www.sensthys.com/shop/</a>

Model	Region	Part Number
SensX Extreme Rugged Reader	North America	SX11480F
	Europe	SX11480E
	Australia	SX11480Au
	China	SX11480C

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