

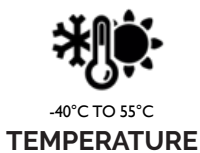
SensX[®] Series

EXTREME



The new SensX EXTREME rugged reader is SensThys' 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.

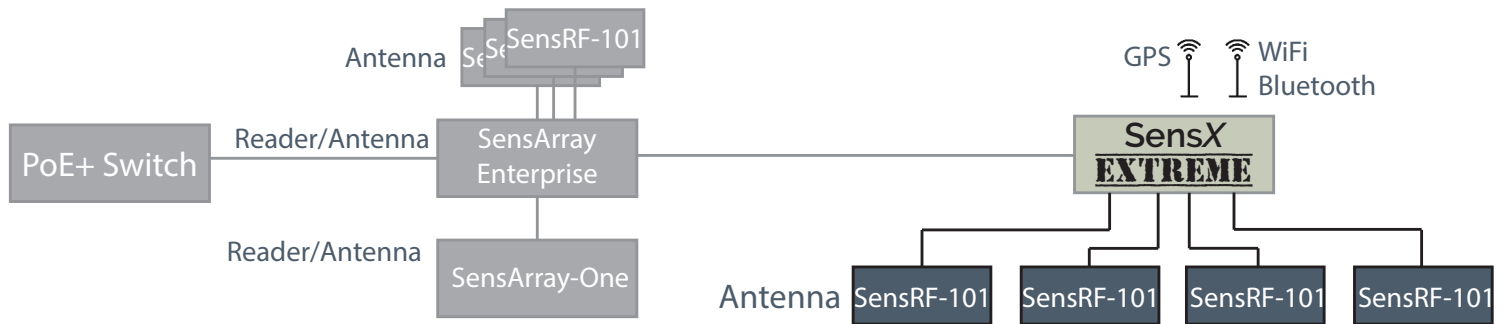


SENSORS



CONNECTIVITY

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 FCC	ETSI (if different)
Reader Architecture	M-Power	
Reader Protocol	EPC Class 1 Gen 2v2 and 18000 – 6C/63	
Operating Frequency	902.75 MHz – 927.25 MHz	865-868 MHz
Hopping Channels	50	4
Channel Spacing	500 KHz	600KHz
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 lbs)
Operating Environment	-40°C to 50°C, 100% humidity
Compliance Certifications	IP67-rating (enclosure)

Software - <https://www.sensthys.com/downloads/>

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

Specifications subject to change without notice.



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

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

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