

SeniMax™ Features

- Ultra low power: consuming only 20mW
- Energy self sufficient: solar powered
- Wireless protocols:
 - IEEE 802.15.4 (for communication with SenSpot™ sensors)
 - CDMA or GPRS (for communication with remote monitoring center)
- Low cost, low profile, and scalable
- Weatherproof IP65 protection
- Coverage: up to 1000 SenSpot™ sensors
- Lightweight: 1.5Kg

Applications

Resensys SeniMax™ is an ultra low power and high performance data collector and remote communication gateway. SeniMax™ communicates with SenSpot™ sensors using IEEE802.15.4 protocol. Wireless communication between SeniMax™ and SenSpot™ sensors uses unlicensed ISM 2.4GHz band. SeniMax™ has capability to communicate the aggregated data of SenSpot™ sensors to any remote data center using cellular data services. Different versions of SeniMax™ for remote communication using Verizon CDMA network or using GPRS network are available. Additionally, SeniMax™ can be used as a data logger, where it receives data of SenSpot™ sensors, and stores them. The logged data can later be transferred to a computer.

A single SeniMax™ device can cover up to 1000 SenSpot sensors in its communication range. SeniMax is ideal solution in applications of distributed sensing and data acquisition where there is no access to main power or communication infrastructures. Particular applications include: structural integrity monitoring for highway bridges, airframes, construction projects, pipelines, etc.



Resensys SeniMax™ Communication gateway