

evoHop™ Range Extender



With its Wavenis® wireless technology, evolution products offer some of the farthest network connections in the industry. Still, some real-world scenarios require longer range than individual RTMs can achieve. In order to connect the most remote devices back to a network's main gateway, you may have to use range extenders.

evoHop is an autonomous wireless repeaters designed to extend the operating range of evolution Radio Transceiver Modules (RTMs) in Fixed Network AMI systems.

evoHop offers a high power transceiver for long range coverage. Range extenders help reduce overall costs by limiting the number of gateways needed in a network.

[Optimizing wireless networks.](#)

evoHop gives you the flexibility to deploy data collection and monitoring networks to suit any topology. With its high power transmitter, it provides reliable data connections over distances of up to several miles, allowing you to benefit from evolution's ultra low-power consumption RTMs and low overall equipment cost.

Technical features

- Autonomous battery supply optimized for long range and 20 year life with 20 evo RTMS connected
- 902-928 MHz ISM bands frequency hopping spread spectrum (FHSS)
- Approvals
 - FCC 15-249, FCC 15-247 compliant
- Protection class IP68, fully potted, submersible
- Operating temperature
 - 40° to 185°F (-40° to 85°C)
- Dimensions
 - 5 x 2 x 2 in (12.7 x 5 x 5 cm)
- Weight
 - approx. 8 oz

Functional characteristics

- Extends wireless range of evolution RTMs
- Uses secure, reliable Wavenis communication protocol
- Several years battery life depending on usage
- Resistant to RF interference - sophisticated FHSS, data interleaving, FEC
- Build flexible wireless networks of any size
- Tree, star, and mesh network topologies

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