

EdgeQ S Series



Edge Compute



L1, L2/L3



700MHz - 7.2GHz



4G + 5G



Low Power

S Series Product Summary

The S Series is the world's first software-defined platform that massively integrates 4G, 5G and AI into a single chip. Completely software programmable, the S Series leverages over-the-air upgradeability for new features rollout, 4G to 5G transition, and over-the-air deployment of 3GPP standards. With customizability at all layers of the SoC, the S Series is particularly ideal for customers looking for an elastic platform that dynamically scales and tailors across the rich broad range of 4G and 5G workloads.



Fixed Wireless



Residential



Private 5G

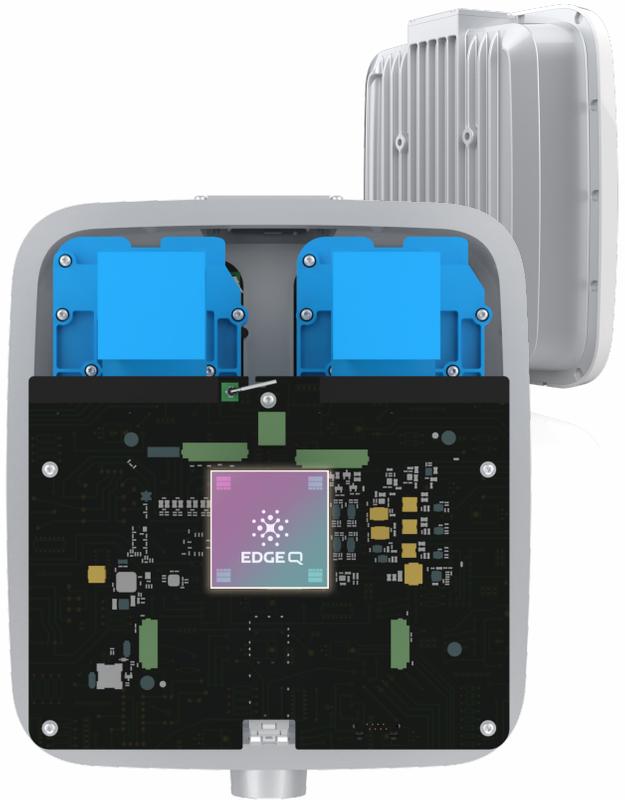


Outdoor gNB

Uniquely EdgeQ

The S Series is the world's first multi-radio access technology (RAT) SoC, capable of parallelizing 4G and 5G concurrently in an ultra-low power footprint. Our unified design supports all ORAN configurations (Options 0, 2, 6, 7.2) and compacts core functionalities of a Radio Unit, Distributed Unit, and Central Unit. The S Series delivers enterprise-class performance at unprecedented low power for Power-Over-Ethernet operations.

By coupling software programmability with high-speed, polymorphic interfaces, the S Series can serve as an all-in-one eNB/gNB, a disaggregated RAN for 4G and 5G indoor/outdoor small cells, a neutral host network, or a fixed wireless. In addition to the 4G and 5G RAN functions, the S Series also offers an AI compute platform for MEC use cases.



S Series Product Highlights

- 3GPP 4G, NR Rel 15/16 (Field Upgradable to Rel 17)
- Support All Sub-6 and mm-Wave RF Bands
- Monolithic Integration of 4G and 5G Baseband, CPU and NPU into a single SoC
 - EdgeQ TXU Processor (RISC-V Based)
 - Arm Neoverse CPU + NPU
- Concurrent Multi-RAT (4G, 5G), SA and NSA Modes Supported
- Embedded Artificial Intelligence
- Multi-Access Edge Computing (MEC)
- Customizable Physical Layer Processing