EdgeQ S Series

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.

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