![Saankhya Labs logo]

5G Communication Solutions

Truly Open Next-Gen Radio Network

Saankhya Labs is developing a **Truly Open Virtualized RAN solution** based on our **proprietary elastic RAN processor**. The 5G RAN solution portfolio includes

1. End to End native DU Hardware platform

2. Multi Band Remote Radio Units (RU) with advanced analytics capabilities

3. RAN Intelligent Analytics platform.

The Saankhya Labs 5G portfolio provides a differentiated solution to the operator to optimize spectrum use and reduce Total Cost of Ownership.

Saankhya Labs 5G Advantage

Breakdown of Single-Vendor Hardware Centric RAN

Opening market for Independent Hardware Vendors and Independent Software Vendors

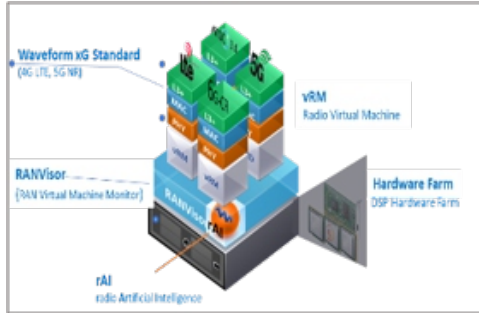Highly Elastic and Scalable System

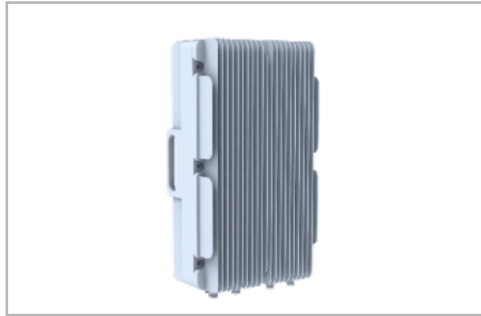Ability to "port" DU software to different hardware platforms
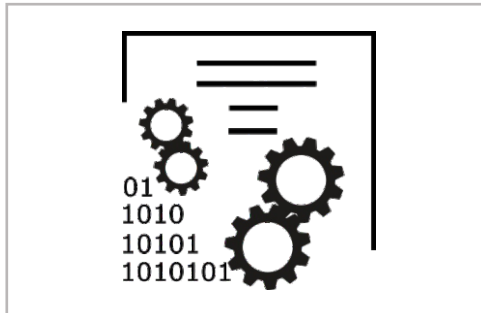
Lower Capex and Opex

Open DU

This includes Hardware Abstraction Layer (HAL) software framework and an SDR based Open DU hardware platform. This will help the global operators save on cap-ex and op-ex. This platform is the result of deep expertise of the Saankhya team in RAN Infrastructure, Cloud and Virtualization, and VLSI Architecture. It will be available in 2021

5G RU

This includes multi-band 5G RU equipment (hardware and software) available in 2021 and an SDR based RU hardware platform available in 2022. The solution supports for various 3gpp bands specially the low and mid bands like Band 71, 29 and 40. It can be customized for other bands as well. The solution will incorporate a unique front haul compression technique to reduce op-ex for operators.

RIC

This is a software product under development for network automation and capacity optimization. It will be available by 2022. The product is in line with the ORAN specification of the Radio Interface Controller. It will be implemented as a VNF and allows easy integration. It can do dynamic AI based network optimization through real time measurement and monitoring of network parameters

About Saankhya Labs

Saankhya Labs is a premier semiconductor and wireless communication solutions company. We offer a wide range of communication solutions, technologies and platforms across Open RAN, 5G, Broadcast and Satellite IoT systems. With several international technology patents and unique 'chips-to-systems' expertise, Saankhya's solutions include world's first production SDR chipsets, next gen open RAN Solutions for 5G networks, multi-standard DTV modulators and demodulators and many other award-winning solutions.

Saankhya Labs

Saankhya Labs Pvt. Ltd.
Embassy Icon, Floor 3
No. 3, Infantry Road
Bengaluru, Karnataka
560 001

www.saankhyalabs.com   info@saankhyalabs.com   +91 80-6117 1000