



SERIES-B PRESS MEDIA

➤ APRIL 19, 2023

## Consumer Focus



Smartphone Optimized

## 5G Wireless Infrastructure



Enterprise | Telco

A DIFFERENT DESIGN POINT

## Datacenter Focus



Performance Compute

Vertical Integration

Custom Chip

NOKIA ERICSSON SAMSUNG HUAWEI

Built on Legacy Architecture

Proprietary. Closed.

# Telco Meets Enterprise.

## Industry Lacks an Efficient Massive Market 5G Chip



5G Small Cell

5G ORAN Macro Cell

Private and Macro 5G Networks

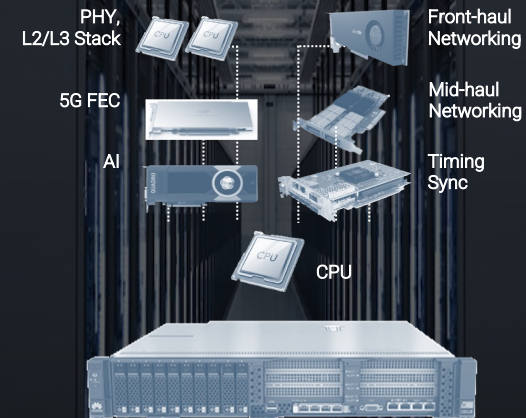
1/2 of the Cost • 1/2 of the Power • Open Architecture

Confidential & Proprietary

Merchant Silicon

General Purpose Chips

intel NVIDIA AMD MARVELL

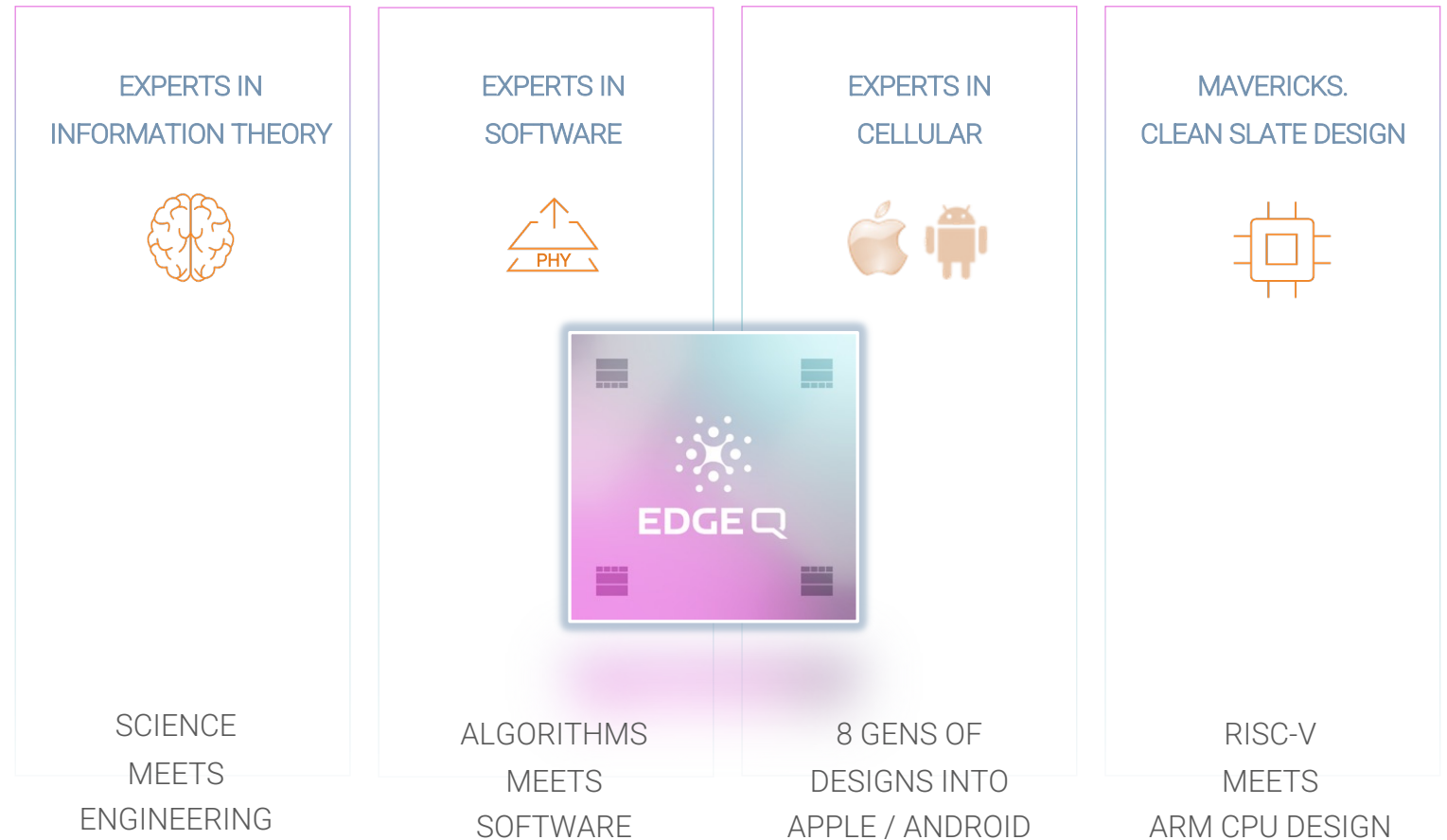


Built for Compute, Not 5G

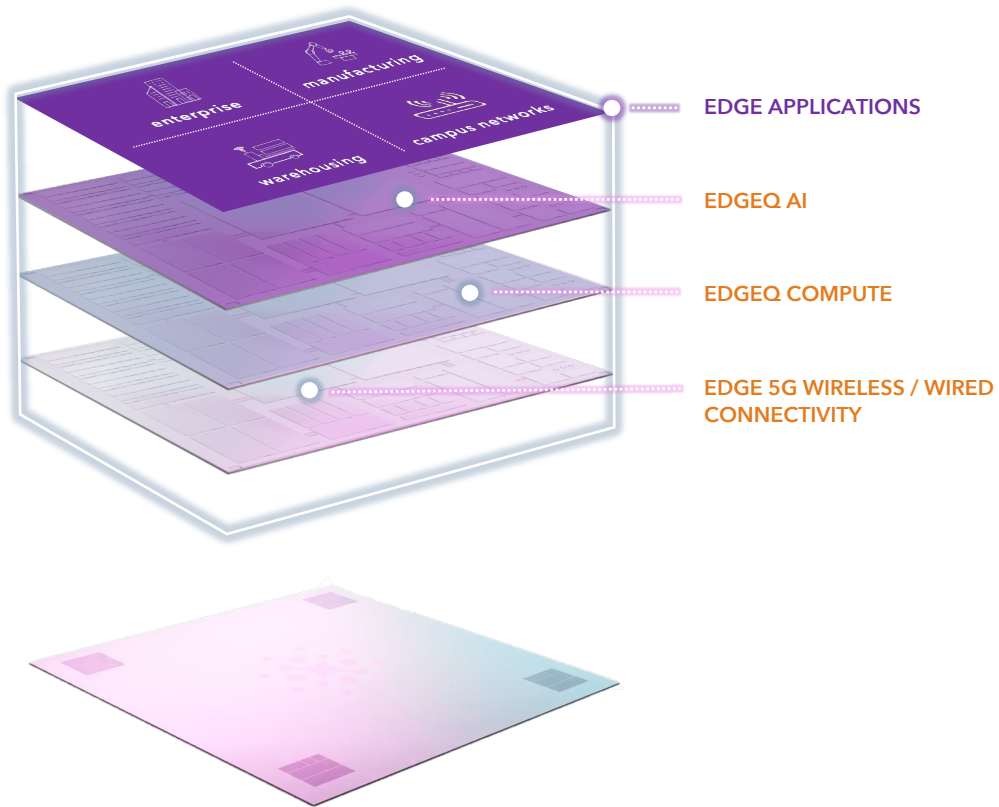
High Cost. High Power.

# Not Anyone Can Do 5G.

EDGEQ Had to Assemble a Team of 5G + Chip + SW Experts



**EDGEQ**  
4G + 5G + AI Chip



## 5G Made Easy.

ALL-IN-ONE. CHIP + 4G/5G SOFTWARE STACK

# EDGEQ

## Making 5G Edge Cloud Possible

The Only Company Offering  
4G+5G+AI Chip with Production Grade PHY Software

# 5 Years in the Making

EdgeQ Enters Growth Phase in 2023



Won Industry's  
Greatest Honor

EdgeQ Wins GLOMO Award



Field  
Deployment

First EdgeQ-based 5G Networks



Completed  
Funding Raising

Series-B is Closed



Production  
Ramp

Customer Deployments

\$75M

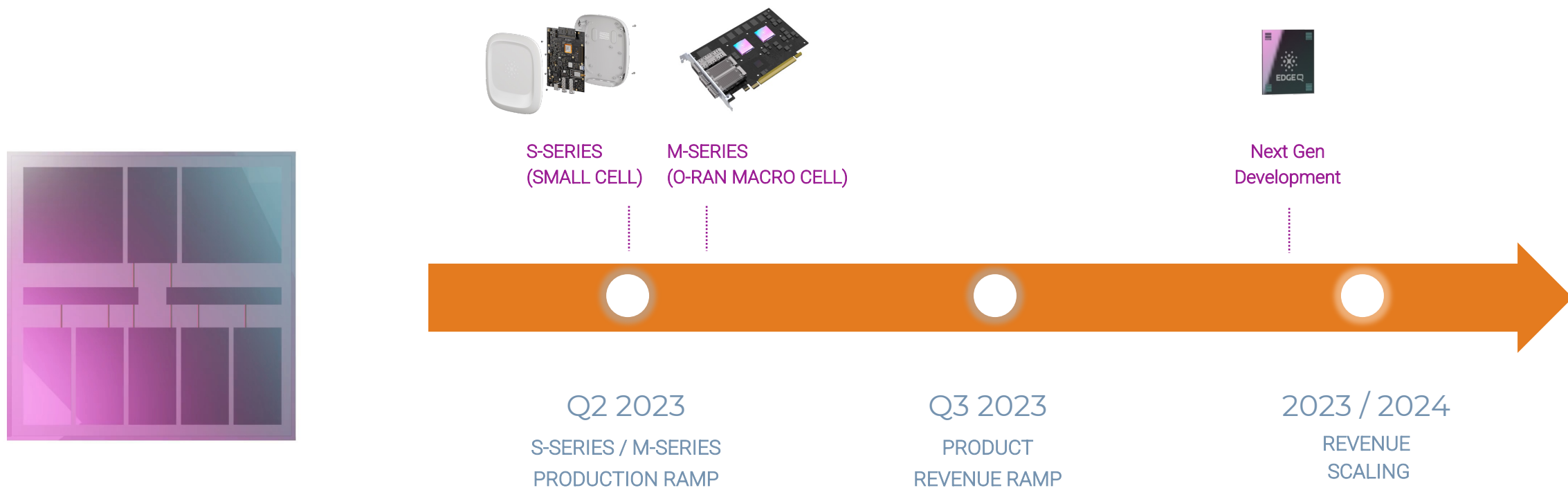
Series-B Round Size

# EdgeQ Closes Series-B



Very Few Semiconductor Startups Successfully Raising Such Funds  
Rich Mix of Institutional and Strategic Investors Worldwide

# EdgeQ Well-Capitalized to Scale with Series-B



EDGEQ Enters into Customer Deployments of Private 5G and Open RAN Networks

# Industry Leader Jim Anderson Joins EdgeQ's Board



## Background and Career

Lattice Semiconductor President and Chief Executive Officer

- Serves on the company's Board of Directors.
- Joined Lattice in 2018 focusing the company to be the leader in low power programmable solutions.

Former SVP/GM of AMD's Computing and Graphics business group.

Former SVP/GM of LSI Corporation

Leadership positions at Intel, Broadcom (formerly Avago Technologies)

Serve on the Board of Directors of: Entegris, Semiconductor Industry Association, the MIT Sloan Americas Executive Board, the Electrical and Computer Engineering Advisory Board at Purdue University, and the Dean's Advisory Board for the College of Science and Engineering at the University of Minnesota.

MBA and MS in EECS from the Massachusetts Institute of Technology  
MS in EE from Purdue University. BS in EE from the University of Minnesota.

Highly Respected Semiconductor Leader | Great Addition to EdgeQ Board

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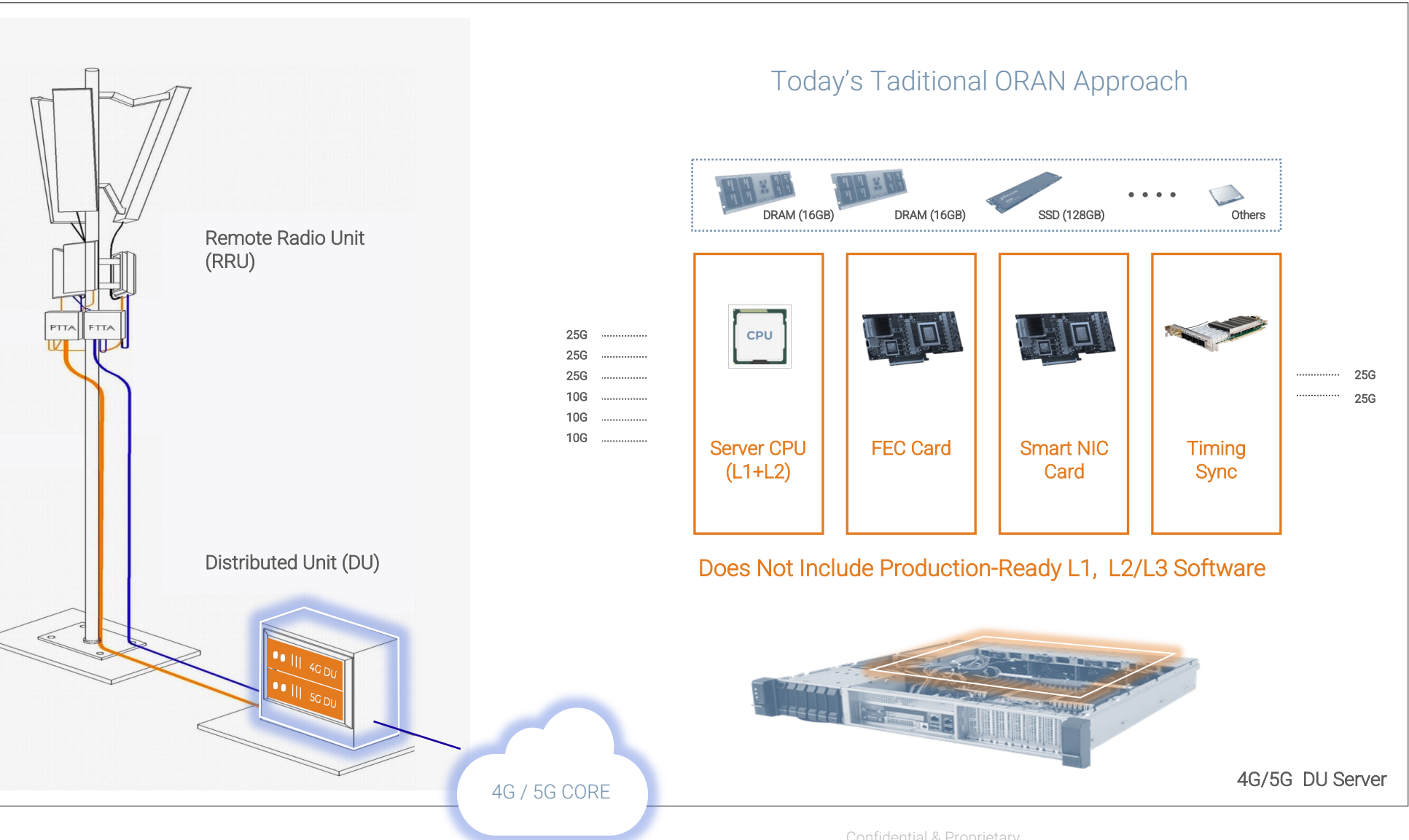
Series-B is Closed



Production  
Ramp

Customer Deployments

# Traditional ORAN Today: High Power. High Cost. Wrong Fit.



EdgeQ Delivers at

< 50% of Cost

< 50% of Power

Traditional 5G Approach  
High Cost – High Power

POWER:	300W
USER RATE:	~ 15Gbps
DU COST:	~ \$5k
FORM FACTOR:	Server

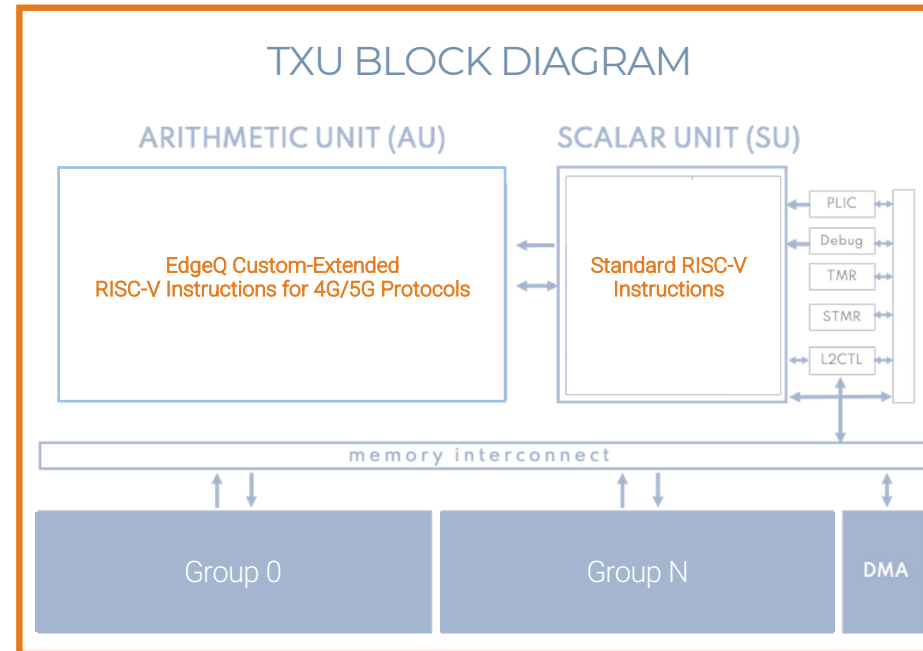
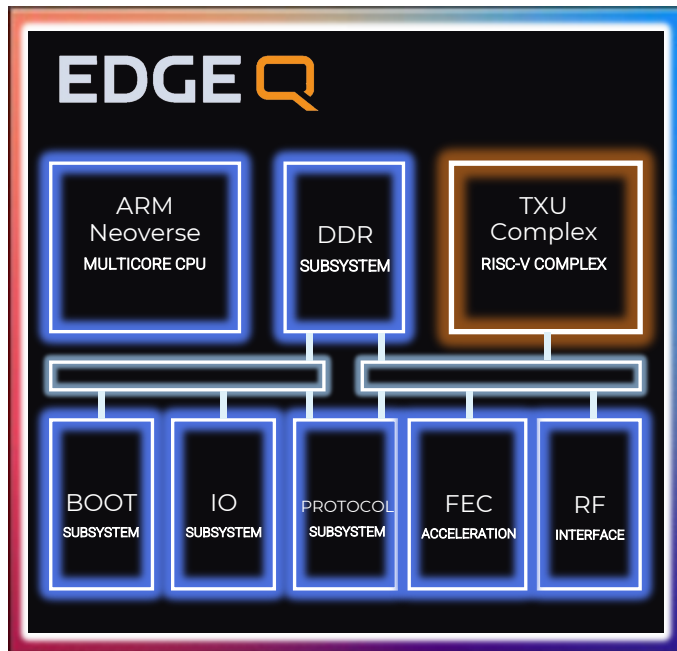
# One Chip. Numerous Market Play

One Stop Shop: 4G + 5G. All Software Programmable



# EdgeQ Unique 5G+4G Engine: Tensor Execution Unit

Unique Hybrid Architecture of RISC-V + ARM Cores



## EDGEQ UNIQUE APPROACH

Open Architecture + Open Ecosystem  
( Market Can Now Access Open Dev Tool Sets )

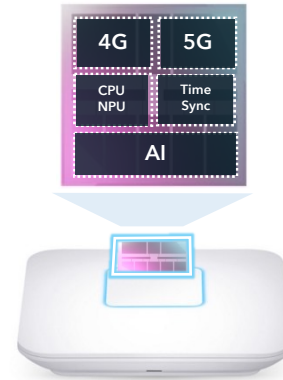
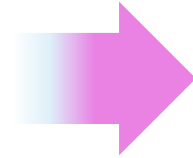
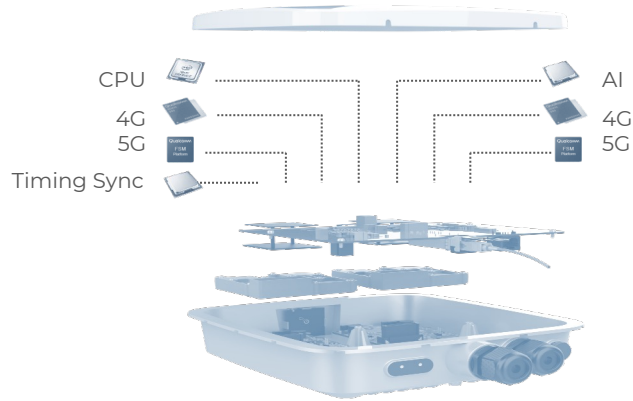
Converged 4G+5G + AI in One Elastic Chip

High Performance ( 10Gbps ) @ Low Power ( <15W )

Complete with Deployable 5G Software ( L1, L2/L3 )

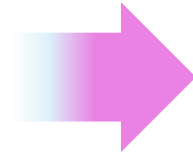
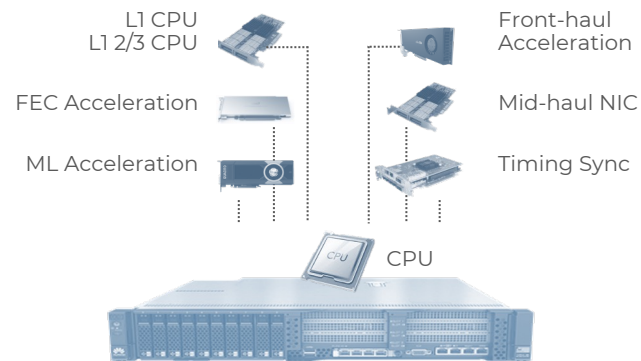
A Compute Complex of 60 RISC-V based Cores. Fully Programmable. Fully Configurable.

# Connectivity + Compute in a Chip



EDGEQ 5G  
ACCESS POINT

Industry's First Concurrent 4G+5G Small Cell



EDGEQ 5G OPEN-RAN  
DISTRIBUTED UNIT

Industry's First RISC-V based Massive MIMO In-line Acceleration

6:1 Integration at Fraction of the Power and Cost

EDGEQ

2x

LOWER THE POWER

2x

LOWER THE COST

10x

LESS THE SPACE

# EdgeQ Scales from Small Cell to Macro Cell

Home  
(Femto Cell)

Enterprise  
(Factory 4.0)

Outdoor  
(Fixed Wireless)

Outdoor Macro  
(Remote Areas)

Cell Site  
(O-RAN Base Station)

Pre-Aggregation  
(Cloud Data Center)

SOFTWARE DEFINED L1, L2/L3  
Up to 1K Users • Up to 64 Antenna • 50% of the POWER & COST  
Up to 10Gbps • Up to 15W



# Enterprise 5G Use Cases



HOTEL / HOSPITALITY



## Applications

- Keyless Entry
- Auto-Registration/Check-out
- Digital Signage
- Internet Access
- Concierge Services



MANUFACTURING



## Applications

- Video Surveillance
- Defect Detection
- Automated Guided Vehicles
- Internet Connectivity



LOGISTIC WAREHOUSE



## Applications

- Video Surveillance
- Scanners for Inventory Management
- Internet Connectivity



EDUCATION



## Applications

- Digital Class Room
- General Office Connectivity
- Internet Access

# EdgeQ Wins Multiple 2023 Global Mobile Awards

## INDUSTRY'S MOST PRESTIGIOUS ACCOLADE – The “Oscars” of Wireless Technology



CTO CHOICE AWARD:  
OUTSTANDING MOBILE  
TECHNOLOGY

Voted by 20+ CTO Worldwide

EdgeQ Beats Out Finalists:  
Huawei, Rakuten, Ericsson, Nokia,  
ZTE, Mavenir, Juniper, Apple

Previous winner include Samsung,  
Rakuten, Ericsson, Huawei,



BEST DIGITAL TECH  
BREAKTHROUGH  
(for companies <\$10m revenue)

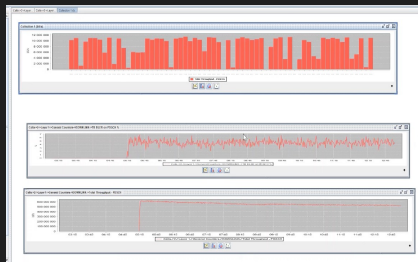
This Award Represents the Best  
Startup of 2023

It is designed to capture  
breakthrough technology  
enhancement in the entire mobile  
ecosystem.

THE ONLY SEMICONDUCTOR AND STARTUP WINNER

# EdgeQ LIVE.

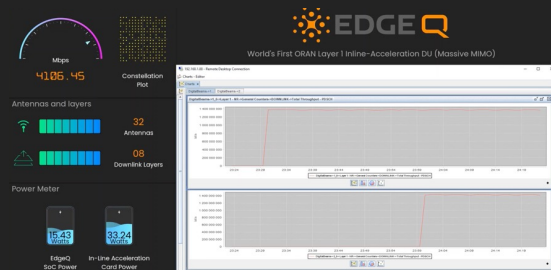
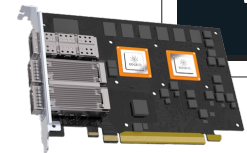
Open-RAN Compliant. Small Cell. O-RAN DU.



World's First All-in-One 4G+5G gNB  
( 4x4, 100MHz, 100+ Users, 2 Gbps )



100+ Active Users Running on Small Cell  
( AN INDUSTRY FIRST ! )



World's First O-RAN Massive MIMO  
( 32 Antennas, ~4Gbps, 8 Layers, <50 Watts )



Samsung Galaxy

OnePlus

Apple iPhone

Mobile Phones  
Interoperate with EdgeQ





# Thank You



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Santa Clara, CA 95054

# about Vinay Ravuri



Vinay Ravuri

CEO | Founder

Vinay has 25+ years of experience as a distinguished industry executive and general manager for high-tech corporations in compute, communications, and networking. As an executive, he has navigated companies to key strategic inflections in areas of cloud computing, machine learning, and 5G. As Vice President at Qualcomm, Vinay played an integral part in the establishment of its Data Center server and Machine-Learning technology, and drove their advanced mobile software product management.

**cheddar news**

[Creating a Hyper connected world](#)



[How 5G is creating an inflection point for new semiconductor startups to emerge](#)

**NBC**  **BAY AREA**

[The future of 5G](#)



[Global chip shortage sparks record investment in US semiconductor sector](#)

## COMPANY ANNOUNCEMENTS

# EdgeQ Recent Press Releases

01

EdgeQ, Vodafone, and Dell Debut State-of-the-Art, Software-Defined, maMIMO Open RAN Solution

Bloomberg | February 27, 2023

02

WNC's Newest Small Cell Leverages EdgeQ's Base Station-on-a Chip to Scale Enterprise Networks at Breakthrough Economics and Performance Throughput

Wistron | February 27, 2023

03

MWC 2023: EdgeQ ORAN DU Demo

TIRIAS RESEARCH | March 3, 2023

04

EdgeQ to Debut Single Chip for 5G Private Networks

EE Times | February 24, 2023

# EdgeQ at a Glance

THE ONLY AMERICAN CHIP STARTUP TO EMERGE FOCUSING ON 5G



200+

TOTAL HEADCOUNT

\$100M+

FUNDS RAISED



3G/4G/5G DESIGNS INTO APPLE/ANDROID

DISTINGUISHED PEDIGREE

\$10B+

WIRELESS INFRASTRUCTURE

5G ENTERPRISE / TELCO / CLOUD

# EdgeQ: Major Press, Awards, Recognitions



## 7 HOT 5G STARTUPS

Investors Are  
Betting On In 2022

## TOP 10 STARTUP

Recognized  
3 Years Straight

## 2022 WINNER

Selected Over  
2700 Nominations

## FEATURED

ex-FCC Chairman  
Joins EdgeQ Board

## FEATURED

Vinay on 5G Emerging  
Chip Startups

## FEATURED

Vodafone Partnership  
Announcement

7 hot 5G startups that investors are betting on to bring the next generation of connectivity

EdgeQ CEO Vinay Ravuri, EdgeQ

Headquarters: Santa Clara, California

### The 5G Telecom Startup Companies Shaking Up The Market

BY GINA NARCEI  
OCTOBER 13, 2022, 10:00 AM EDT

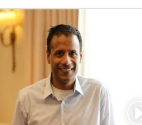
These telecom startups are coming in hot with innovative 5G and private wireless solutions and platforms for enterprises and SMBs.

EdgeQ Wins "Small Cell Technology Innovation of the Year" Award in 6<sup>th</sup> Annual Mobile Breakthrough Awards Program  
Prestigious Annual Awards Recognizes Top Mobile and Wireless Companies and Solutions Around the Globe

SANTA CLARA, Calif., Oct. 20, 2022 - EdgeQ Inc., a leader in 5G wireless infrastructure, has been selected as winner of the "Small Cell Technology Innovation of the Year" award in the 6<sup>th</sup> annual Mobile Breakthrough Awards program conducted by Mobile Breakthrough, a leading independent market intelligence organization that recognizes the top companies, technologies and products in the global wireless and mobile market today.

### THE WALL STREET JOURNAL

Former FCC Chairman Ajit Pai Joins Board of EdgeQ



Country: USA | Funding: \$51M  
EdgeQ intends to fuse AI compute and 5G within a single chip. The company is pioneering converged connectivity and AI that is fully software-customizable and programmable.

# EDGEQ Mobile World Ccongress 2023 SHOWCASE

## 3GPP COMPLIANT. SMALL CELL. O-RAN DU

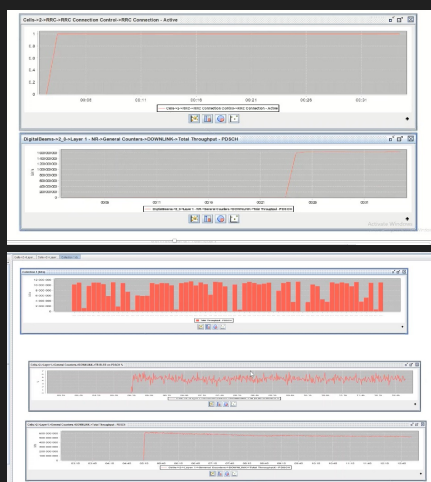
### World's First All-in-One, Multi-Mode 4G+5G gNB



- 2x2, 100MHz, Single User
- 4x4, 100MHz, 64 Users,
- DU + RU + CU Running on a Single Chip
- All-in-One L1 + L2/L3 Running on 1 Chip
- Ultra-Low Power (<12 W)

Single User.  
4x4, 100MHz

Multi User.  
4x4, 100MHz



### World's First End-to-End ORAN Massive MIMO Operationalized!



- 32 Antennas Running!
- Industry Defining Throughput (5 Gbps)
- Industry's Only 4T4R and maMIMO Combination
- Industry Defining Throughput (5 Gbps)
- Ultra-Low Power (<50W)

