

Strengthened Networks portfolio boosts Ericsson's drive towards Net Zero emissions

- A new range of 10 radios led by triple-band Radio 4485, which is 53 percent lighter than comparable products. Also launching new mobile transport and software solutions
- Industry-first, 600MHz Massive MIMO radio with Ericsson-unique Interference Sensing software that adds up to 40 percent more capacity with portfolio-wide hardware support
- A quad-carrier microwave transport radio with four times more capacity plus Radio Deep Sleep support across the MINI-LINK portfolio

Ericsson's (NASDAQ: ERIC) leadership in supporting service providers' Net Zero ambitions, while meeting market demands for higher 5G capacity and revenue growth, has taken a major step forward with the launch of an enhanced RAN and Transport portfolio. Set to be showcased at Mobile World Congress (MWC) 2023 Barcelona, more than 10 new Ericsson solutions will cut carbon emissions and site footprint, increase energy performance and boost network capacity.

The full range of new remote radios for 4G and 5G capacity is led by the triple-band Radio 4485 for FDD (frequency-division duplexing), which is 53 percent lighter and consumes about 22 percent less energy than comparable products. New dual and single-band radios have also been launched.

Ericsson has also introduced a new range of wideband Massive MIMO radios - spearheaded by the industry-first, ultra-wideband AIR 6476 - which provides 600MHz instantaneous bandwidth that doubles capacity without additional antenna footprint and enhances user experience.

Software is in the spotlight as well with new features such as Interference Sensing, which optimizes mid-band Massive MIMO performance by minimizing inter-cell interference and increasing network capacity by up to 40 percent.

The updated portfolio includes new mobile transport offerings. The new quad microwave radio MINI-LINK 6321, with 4.8 Gbps capacity, is aimed at making RAN evolution options easier for service providers. The offering has around 50 percent smaller site footprint and energy consumption than the previous alternative for building a four-carrier MINI-LINK hop.

David Hammarwall, Head of Product Area Networks, Ericsson, says: "Capacity expansions, energy savings, and sustainability are central to service providers' RAN evolution plans. Ericsson's enhanced portfolio fulfills the key needs of service providers and is leading the industry towards Net Zero while capturing opportunities of data traffic growth. We expect these topics will be the center of attention in our discussions with customers at MWC Barcelona 2023 and beyond."

PRESS RELEASE

February 9, 2023



Portfolio additions include:

- Intelligent Cell Shaping: Ericsson-unique software with intelligent automation that improves coverage and boosts downlink speed at the cell edge by up to 35 percent
- Booster Carrier Sleep: energy-efficiency software feature that allows carriers to be switched on and off depending on the traffic load
- Energy efficiency features in mobile transport with MINI-LINK Radio Deep Sleep, which lowers radio energy consumption by up to 25 percent by hibernating radios in multi-carrier solutions when the capacity is not needed
- New cell site router, Router 6676: with high density of 25GE interfaces and is three-times more energy-efficient than the previous generation of routers. It supports Ericsson's new remote radios and Massive MIMO radios with 25Gbps interfaces

Underpinning the solutions is an Ericsson hardware and software co-design that allows the network to slash power consumption by up to 94 percent during low traffic compared to peak consumption.

Ericsson is also reducing its own carbon emissions in the production of new radios, using the embodied carbon* metric, which gauges the amount of greenhouse gases released before the product is deployed. Radio 4485 has 50 percent lower embodied carbon emissions than comparable products.

The new solutions will be on show in Ericsson's booth in Hall 2 at the Fira Gran Via during MWC Barcelona 2023 from February 27 to March 2. The portfolio additions will be commercially available during 2023 and Q1 2024.

Ed Gubbins, Principal Analyst at Global Data, says: "Ericsson's latest RAN and transport solutions address not only a key pain point of service providers – how to grow capacity to further monetize 5G while keeping costs down – but also a top concern, which is energy efficiency or reducing their carbon footprint. The 'more with less' theme is spot-on with the new radios and software features - compact yet more powerful with higher capacity and energy efficiency. Also worth noting is Ericsson's unique hardware and software co-design that enhances overall network performance."

Achieving Net Zero green gas emissions is one of the most crucial and essential challenges the world is facing. Concerted efforts are underway across the telecoms sector by many players to achieve Net Zero emissions by 2050 or earlier.

Find out more about the [latest macro and mobile transport portfolio additions](#).

Related launch content:

[Ericsson Massive MIMO](#)

[Ericsson Remote Radios](#)

[Ericsson Mobile Transport Solutions](#)

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NOTES TO EDITORS:

***Embodied carbon** consists of all greenhouse gas emissions that have occurred before the product is used. It includes emissions from the extraction of raw materials, transportation to suppliers' production, Ericsson manufacturing, and product transportation up to the customer.

Net Zero: the goal to cut greenhouse gas emissions to zero supporting the Paris Agreement target to limit global warming to no more than 1.5°C. Ericsson is determined to reduce emissions by 50 percent by 2030 and reach Net Zero by 2040.

Other related content:

[Ericsson raises sustainability bar with triple-band, tri-sector 5G radio](#)

[A holistic approach to address RAN energy efficiency](#) (Tech Unveiled blog)

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