

ERICSSON'S NEW GENERATION RADIO SYSTEM

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RADIO TRENDS

Driving the requirements for radio network transformation

Multi-standard now

LTE

WCDMA/HSPA

GSM/EDGE

Multi-band and more on the way

SOOD MHZ

SOOD MHZ

CA FDD/TDD

1800 MHZ

800 MHZ

800 MHZ

Multi-layer is becoming the norm

RADIO TRANSFORMATION REQUIREMENTS



2020 VISION Multi-standard // Multi-band // Multi-layer

RADIO
PERFORMANCE

Deliver the best user experience

SCALABILITY



Meet the challenge of growth

FLEXIBILITY



Deliver capacity and performance where it is needed ENERGY EFFICIENCY



Sustainable and profitable networks TOTAL COST OF OWNERSHIP



Secure the best business case for mobile networks





FROM RADIO BASE STATION TO RADIO SYSTEM

ERICSSON RADIO SYSTEM



From Radio Base Station to Radio System





Ericsson Network Manager

ERICSSON RADIO SYSTEM NEW HW

Baseband R503
Baseband T503





Power 6302



Digital Radio System-on-Chip

Novel power amplifier technology

Super-compact filter design



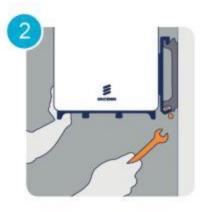


ONE-BOLT INSTALLATION

Building practice innovation // Ericsson Rail System Fast installation // Lower site & deployment costs







ADAPT TO ANY SITE



- Multiple mounting options
- Simplified site acquisition
- > Minimize footprint
-) Fast installation and expansion
- Airflow innovation



INSTALL IN THE TIGHTEST SPACES







Industry leading radio density

- Maximizes site space
- Saves site rental
- Allows for growth



MICRO RADIO

3

50% SMALLER & LIGHTER

- > New modular micro radio system
- > Macro feature parity, coordination
- → 4 liter and 5 kg installed











Massively-parallel processing system

High-capacity hardware

- > 80,000 subscribers
- > 24 cells
- > 960 MHz antenna bandwidth

Multi-standard hardware > LTE, WCDMA, GSM

Mixed operation

> LTE FDD/TDD, WCDMA, GSM

Common O&M for all standards



ERICSSON RADIO SYSTEM NEW MINI-LINK PRODUCTS



Transport portfolio with advanced radio integration

Highest node capacity in smallest form factor

World's smallest high power radio unit

Managed by Ericsson Network Manager









MINI-LINK 6351

MINI-LINK 6363

MINI-LINK 6352 Fronthaul 6392

MINI-LINK 6691

MINI-LINK 6692

ERICSSON RADIO SYSTEM NEW ROUTER PRODUCTS



Transport portfolio with advanced radio integration

High density 10G and 100G interfaces

SDN enabled

Managed by Ericsson Network Manager











Router 6371
Small Cell Outdoor

Router 6471
Small Cell Indoor

Router 6672 Cell Site Router Router 6675
Pre-aggregation Router

Router 6274

Modular Aggregation Router

Lowest power consumption in the industry

- Typically less than 170 W per radio for LTE
- 50% improvement in energy efficiency

Radio performance leadership minimizes number of required sites

BEST ENERGY PERFORMANCE

2020 traffic with lower energy consumption

Additional capacity gains through multilayer coordination

Sustainable Growth



ERICSSON RADIO SYSTEM





PROTECT THE INVESTMENT







SUMMARY





- Modular system approach
- > Reduced size, weight and rail mounting
- > Baseband supporting all standards
- > Fully integrated backhaul
- Superior energy performance
- > Lowest total cost of ownership



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