Fujitsu O-RAN Radio Unit Portfolio
Fujitsu has over 15 years of radio unit (RU) expertise. Over 600K RUs have been delivered since 2004.

2004
First world shipment of Fujitsu RUs

2014
Fujitsu begins supplying dual and triple band RUs

2019
World's first commercial O-RAN compliant 5G deployment

2020
O-RAN trials in Europe

2021
First O-RAN compliant radios delivered to N. America

2022
Massive MIMO O-RU commercially deployed in Japan

2023
Multi-vendor Open RAN deployment in Europe

O-RAN commitment and leadership
Driving Open RAN ecosystem and technology
Fujitsu Open RAN Commercial References

**DISH**
Fujitsu Open RAN RUs deployed in over 120 markets, covering over 70% of the US population

**KDDI**
Fujitsu 5G 32TRx Massive MIMO radios commercially deployed

**AT&T**
Fujitsu selected by AT&T as a supplier for their Open RAN network buildout

**NTT DOCOMO**
5G Commercial network includes Fujitsu Open RAN RUs deployed in thousands of base stations as well as Fujitsu’s Open vCU/vDU

**Deutsche Telekom**
Fujitsu’s LTE and 5G NR O-RAN RU deployed at O-RAN Town & in commercial network
Fujitsu New Radio Unit Portfolio

**High capacity and versatile**
- Multi- and single-band portfolio
- RRH and M-MIMO, FDD and TDD
- High output power per band and RU
- Multi-standard – 2G, 4G, 5G per market need
- High OBW and IBW

**Energy Efficient**
- High power efficiency at all traffic loads
- Innovative power amplifier architecture
- GaN based power amplifiers
- Proprietary linearization and energy efficiency algorithms
- Dynamic power save feature support

**Innovative Features**
- Transport layer security
- PRB blanking
- Built-in PIM cancellation
- Advanced beam management
- Spectrum Monitoring/Management
- Radio Health Monitoring

**Deployable and Reliable**
- Compact form factor
- Versatile mounting
- ORAN Hybrid/O1 Management
- AI-Enabled Failure Prediction
- Minimum Carbon Footprint
First Planned Releases – New Portfolio

Compact & Energy efficient multi- and single-band radios

Compact Mid-Power
- **44R21**
  - Band: Low / Mid band
  - Single-Band: 4T4R/2T4R/2T2R
  - Dual-Band: 2T2R
  - Total output power: Up to 240W

High-Power Multiband
- **44R45**
  - Band: Low / Mid band
  - Dual-Band: 4T4R/4T8R
  - Total output power: Up to 640W

High capacity Massive MIMO
- **64A75**
  - Bands: Sub6 TDD
  - Single-Band: 64TR
  - Conducted power: 400W

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New Platform Deployment Versatility

Different sizes based on requirements

Pole mount

Bookshelf Mount

Wall Mount
RAN Power Savings

Radio Units

1. Efficient
   - Innovative power amplifier architecture for high power energy efficiency
   - Support of advanced dynamic power savings schemes – scaling with traffic

2. Intelligent
   - SMO/RIC AI Driven rApp
     - Artificial Intelligence Application identifies and turns off unnecessary cells while preserving user experience

3. Optimized
   - New CPU and accelerator options to reduce power consumption up to 30%
   - Cell Resource Sharing to double the number of cells connected in low-capacity sites to reduce the number of servers

Power saving performance

Reduced CO₂ emissions

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Thank you