

Data Sheet

Open RAN Solution

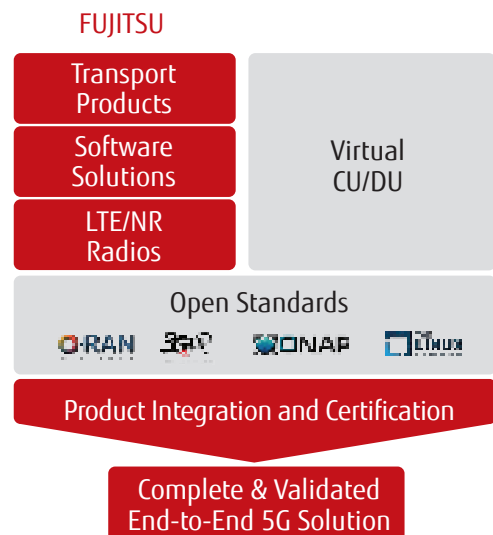
Radio Access Network Solution for Mobile Networks

Mobile operators must respond flexibly and dynamically to growing market demands by installing numerous high-capacity, high-speed base stations over wide areas. To help them achieve this goal, Fujitsu supports 5G evolution with open, customizable equipment and an integrated network architecture. Open interfaces are essential to enable mobile operators to introduce their services expediently, or customize their network to their unique needs.

Operators face critical challenges as they install 5G architecture, including how to use available spectrum efficiently and reduce deployment and operational costs. The Fujitsu Open Radio Access Network (RAN) solution provides the flexible network configuration and extension required for the 5G network, reducing cost in several ways:

- Fujitsu’s Open RAN solution combines flexible and scalable products with open standards, across multiple technologies.
- Fujitsu ensures that this entire ecosystem is tested and pre-integrated as a complete solution. Fujitsu may also offer each product separately.

This approach ensures that all components work together and meet Fujitsu’s quality standards, as well as helping to control costs.



Fujitsu Radio Technology Leadership

Fujitsu has a lengthy track record as a prominent global RAN solution vendor:

- Fujitsu first supplied RAN infrastructure in 1995 (PDC system).
- Fujitsu’s remote Radio Unit (RU) was the world’s first to be shipped, in 2004 (W-CDMA).
- Fujitsu has supplied wideband RUs to the North America market since 2013.
- Fujitsu has designed and supplied customer-specific frequency band combinations for dual- and triple-band applications since 2014.
- Fujitsu has supplied 5G-RU and CU/DU since 2019.



A Feature-Rich Open RAN Solution for Global Customers

Fujitsu RU Features

The Fujitsu Open RAN (O-RAN) solution's features and capabilities enable mobile operators to cost-effectively meet the new demands of the 5G network.

- **Open Interface**
RU supports O-RAN standard interface to Central/Distributed Unit (CU/DU), Element Management System (EMS), Operations Support System (OSS)
- **High-Efficiency**
World-class power efficiency cuts consumption and reduces operational cost
- **Multi-RAT Technology**
Multi RAT technology supports LTE/5G simultaneously in one RU
- **Wideband Innovation**
New algorithm for Digital Pre-Distortion (DPD) compensation and new amplifier technology optimized for wideband
- **Multi-Band**
RU supports two bands with Fujitsu miniaturization technology

Basic RU Specifications

Frequency Bands	Sub-6 GHz: 600 MHz–5.0 GHz* mmW: 24.25 GHz–29.5 GHz 37 GHz–40 GHz*
Access Technology	Multi-RAT (LTE/5G NR)
Number of Transceivers	4–64*
Antenna type	Integrated or External
Fronthaul Interface	O-RAN/CPRI

*Customizable

Product Lineup



Antenna (Integrated Type)
O-RAN Compliant



Antenna (External Type)
O-RAN Compliant



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