

Navian Marketing Report

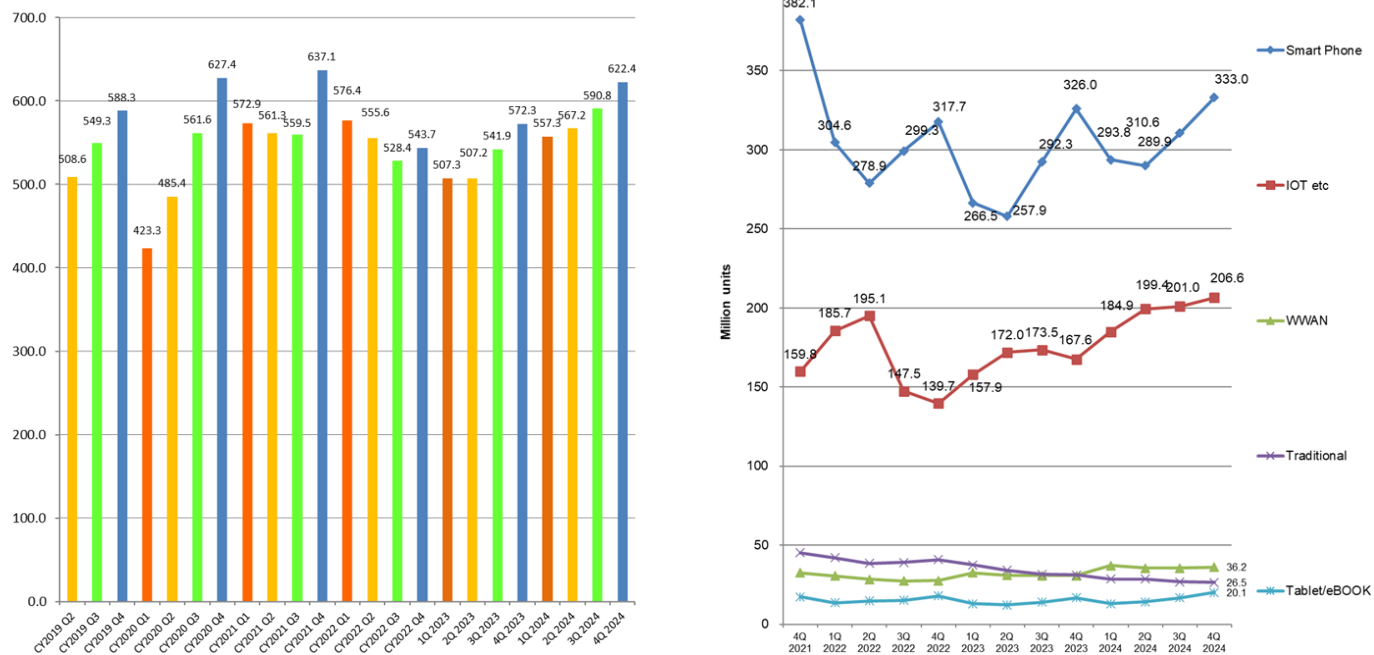
RF Devices/Modules For Cellular Terminal Quarterly Market Report Q4 2024

Released on May 5th 2025

RF Components & Modules in this report

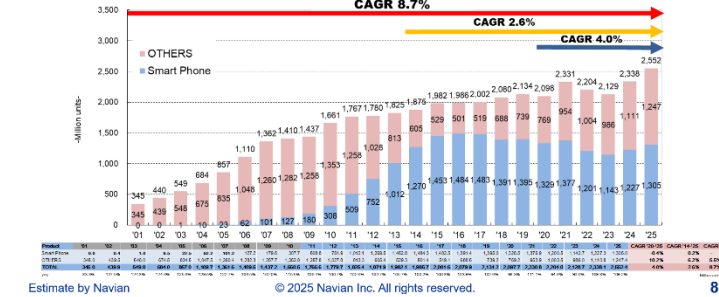
- ① Front end Module (ASM・TX Module・PAiD・FEMiD・All-in-One FEM・PAMiD・**5G TX Module/PAMiF-NEW**・ Multiplexer・A-Multiplexer・**5G RX Module-NEW**)
- ② Antenna Switch (Main RF/Diversity) Power Amplifier Module
- ④ Duplexer
- ⑤ Band Pass Filter
- ⑥ TCXO

Cellular Terminal Shipment History

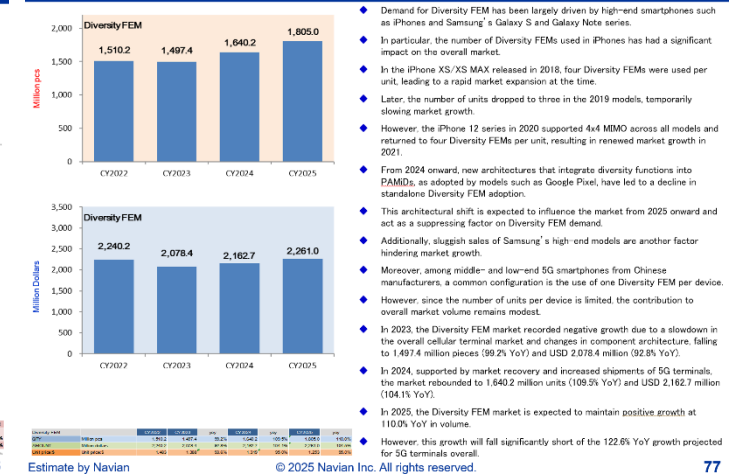


Cellular Terminal Annual Shipment History CY2001-CY2025

- Cellular terminal shipments in 2023 totaled 2,128.7 million units, representing a YoY decline to 96.6%, and recording negative growth for the second consecutive year.
- However, signs of recovery appeared from the second half of 2023, and in 2024, cellular terminal shipments reached 2,330.1 million units, representing 109.0% YoY.
- The main drivers of demand recovery were smartphones and IoT terminals in the Chinese market, supported by the reintroduction of HUAWEI's 5G models and continued infrastructure investment.
- In 2025, further acceleration is expected, with shipments projected to reach 2,552.4 million units, representing 109.2% YoY.
- This growth is believed to be partially driven by smartphones being officially included in China's trade-in subsidy program ("以旧换新") starting in 2025.
- The subsidy is limited to models priced at 6,000 yuan or less, with domestic brands being the primary beneficiaries.
- Cellular IoT terminals are also maintaining steady growth, particularly in the Chinese market, with increasing deployment in urban infrastructure and industrial fields.
- In addition, partial commercialization of 5G RedCap, which offers low power consumption and low cost, is progressing and drawing attention as a driver to accelerate 5G adoption in the IoT sector.



Market Forecast of Diversity FEM



iPhone16e -A3409- RF Section-1

- Low-band PAMiD SKY5 58440-11 Skyworks
7.15x4.68x?mm
- WiFi(2.4GHz) FEM 241 MURATA
3.30x3.30x?mm

Component count
RF1-32pcs-

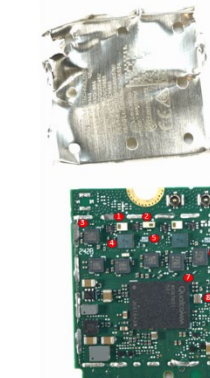


WiFi 7 Modules

FENVI QCNCM865
Qualcomm

INTEL BE200NGW

MTK MT7925



Outline of the report

RF Devices/Modules For Cellular Terminal Quarterly Market Report Q4 2024 -CD-ROM (PDF file)-

- The date of issue May 5th 2025
- The Documents of the report The PDF file of 218 SLIDES : MS PowerPoint based/Excel data/JPEG files of Teardown photos
- Report price JP¥195,000
- Annual subscription for four quarterly issues JP¥510,000(report&data x3/data x1)

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Embedded Module



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Traditional Handset



Fixed Wireless Terminal



Non-Voice

Voice

PHASE 1. CELLULAR TERMINAL SHIPMENT
AND UPDATE

- Cellular Terminal Quarterly Shipment History ~ Q4 2024
- Cellular Terminal Quarterly Shipment by Product Type ~ Q4 2024
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 - Cellular Terminal Shipment History by Smartphone/Others
 - Annual Cellular Terminal Shipment Trend by Product Type
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- FEMiD Market Share Breakdown per Product Type
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- 5G Shipment CY2020-CY2025 by Brand
- ANTENNA FEM for Millimeter Wave

- 5G RFFE Case Studies -Sub 6GHz-
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 - Sub 6GHz RFFE of Huawei MATE20X5 EVR-AN00
 - Sub 6GHz RFFE of Xiaomi Mi Mix 3 5G M1810E5GG
 - Sub 6GHz RFFE of OPPO Reno3 5G
 - Sub 6GHz RFFE of SAMSUNG GALAXY S20+ 5G SC-52A
 - Sub 6GHz RFFE of Apple iPhone12Pro A2406
 - Sub 6GHz RFFE of Apple iPhone14 Pro MAX USA
 - Sub 6GHz RFFE of SAMSUNG GALAXY S21 Ultra SC-52B docomo
 - Sub 6GHz RFFE of Fibocom FM650-CN (5G IOT Module)
 - Sub 6GHz RFFE of Xiaomi Redmi Note 12 Pro 5G
 - Sub 6GHz RFFE of Huawei Mate 60 Pro
 - Sub 6GHz RFFE of Google Pixel9
- 5G RFFE Market Forecast in CY2025
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- 5G TX Module/PAMiF Market Share for CY2025 Forecast
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PHASE 6. Hot Products Teardown

- iPhone16e -A3409- JAPAN Model
 - The first iPhone to adopt Apple's 5G modem Released 2025, February 28 -
 - RF Circuit Block Diagram
 - Main RF Parts list & Duplexer/BPF Count
 - Teardown pictures & RF Modules/Components
- QUECTEL RG255C-GL
 - The first IoT module to support 5G RedCap Released 2024, April -
 - RF Circuit Block Diagram
 - Main RF Parts list & Duplexer/BPF Count
 - Teardown pictures & RF Modules/Components
- WiFi 7 Modules
 - FENVI MT7925 WiFi 7
 - FENVI BE200
 - FENVI QCNCM865
 - RF Circuit Block Diagram
 - Main RF Parts list & Duplexer/BPF Count
 - Teardown pictures & RF Modules/Components

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CONTACT

ATTN: Yoshiyasu Andoh
E-mail: andoh@navian.co.jp

Navian Inc.
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Phone: +81-3-5303-1303 / Fax: +81-3-5303-1304

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