

Navian Marketing Report

RF Devices/Modules For Cellular Terminal

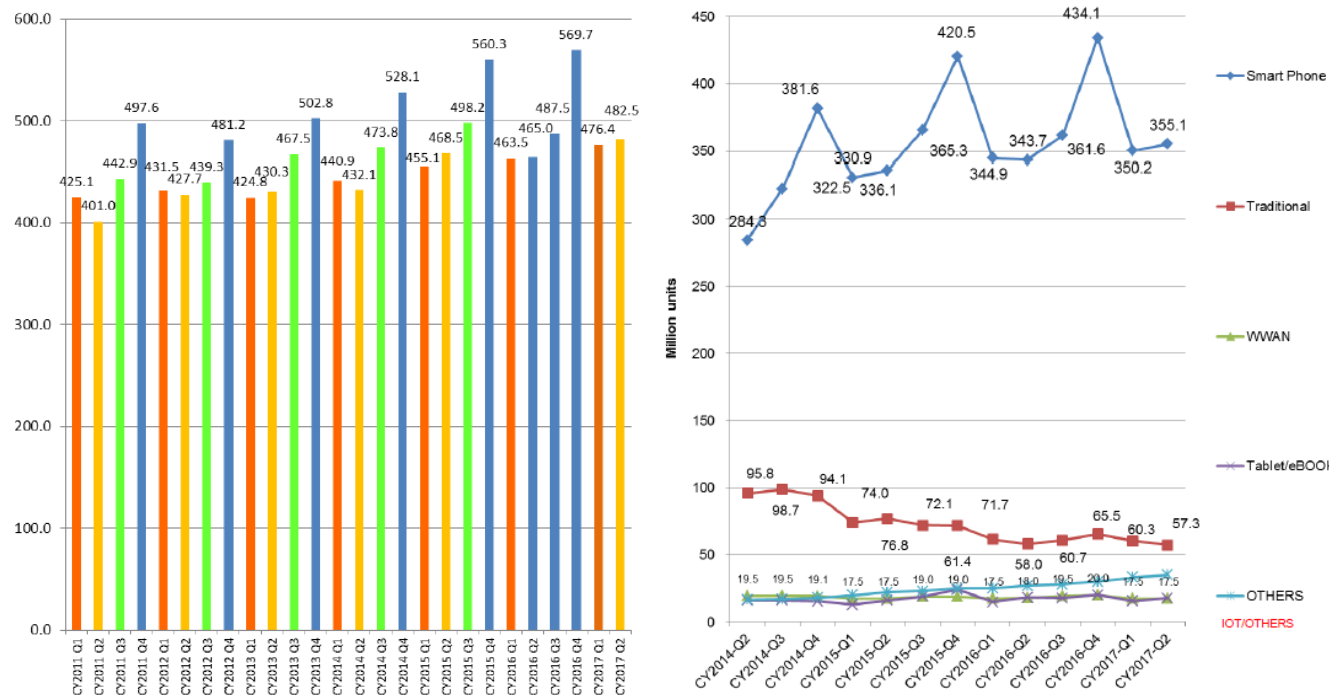
Quarterly Market Report Q2 2017

Released on October 28th 2016

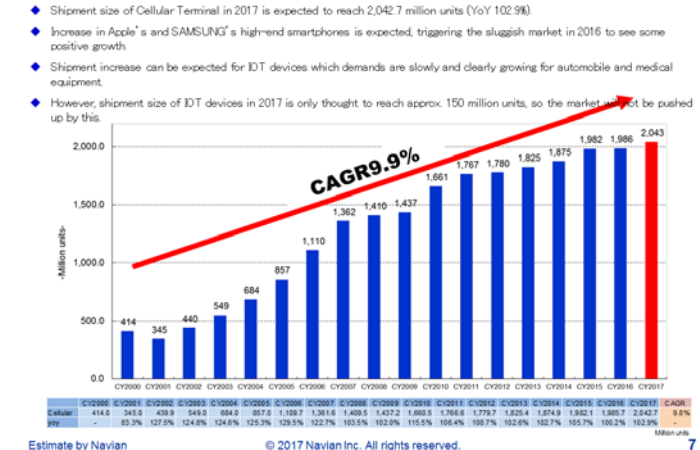
RF Devices/Modules for Cellular Terminal in the report

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

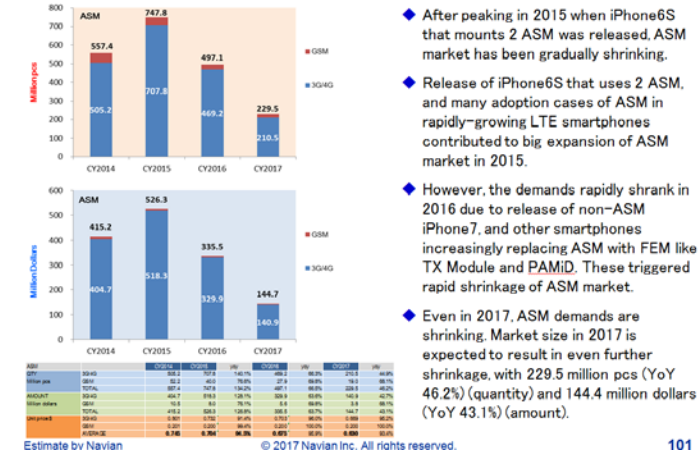
Cellular Terminal Shipment History



Cellular Terminal Annual Shipment History CY2000-CY2017



Market Forecast of Antenna Switch Module in CY2017



Antenna Multiplexer Outline

- Our new subject of investigation starting from this report is Antenna Multiplexer.
- Unlike Multiplexers that aim for simultaneous sending and receiving of multiple frequencies using multiple Duplexers, this component demultiplexes Antenna signals into multiple waves.
- Both components are currently called Multiplexer in general, but we will refer to the latter as Antenna Multiplexer to differentiate it from Duplexer-based Multiplexer.
- Currently, iPhone uses Antenna Multiplexer (A-Multiplexer) to demultiplex Sub Antenna, and Media Tek uses it in their reference design.
- iPhone uses it to demultiplex WiFi and GPS frequencies in addition to Cellular frequency.
- Meanwhile, Media Tek uses Antenna Multiplexers mainly to support Carrier aggregation by demultiplexing Cellular frequencies into 3 bands of high-band, middle-band, and low-band, and are used directly under Antenna of Main RF and Diversity.
- This Media Tek Antenna Multiplexer is estimated to have the same style as what is considered to be adopted in other platforms, and will be the conventional Antenna Multiplexer.

RF-iPhone8 A1906 Japan model RF Section-3

Component count: 33pcs

- Diversity FEM with LNA For Low-band SKY13760-19 Skyworks 3.72x3.62x0.64mm
- Diversity FEM with LNA For Middle/High-band SKY13762 Skyworks 4.53x4.13x0.65mm
- Diplexer Low+GPS TDK 1.63x0.81x0.53mm
- BAW A-Multiplexer Quadplexer M/H+L+GPS+WiFi AVAGO 2.50x2.52x0.80mm

e-Book Reader
Tablet PC

WWAN Terminal
Adapter

Embedded Module

Smart Phone

Traditional Handset
Mobile Phone

Fixed Wireless Terminal

Non-Voice

Voice

Outline of the report

RF Devices/Modules For Cellular Terminal Quarterly Market Report Q2 2017 -CD-ROM (PDF file)-

- The date of issue: November 24, 2017
- The Documents of the report: The PDF file of 235 SLIDES : MS PowerPoint based/Excel data/JPEG files of Teardown photos
- Report price: JP¥168,000
- Annual subscription for four quarterly issues: JP¥560,000 (JP¥140,000/report)

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RF Devices/Modules For Cellular Terminal Quarterly Market Report English Version

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