

# Navian Marketing Report

## RF Devices/Modules For Cellular Terminal

### Quarterly Market Report 1Q 2018

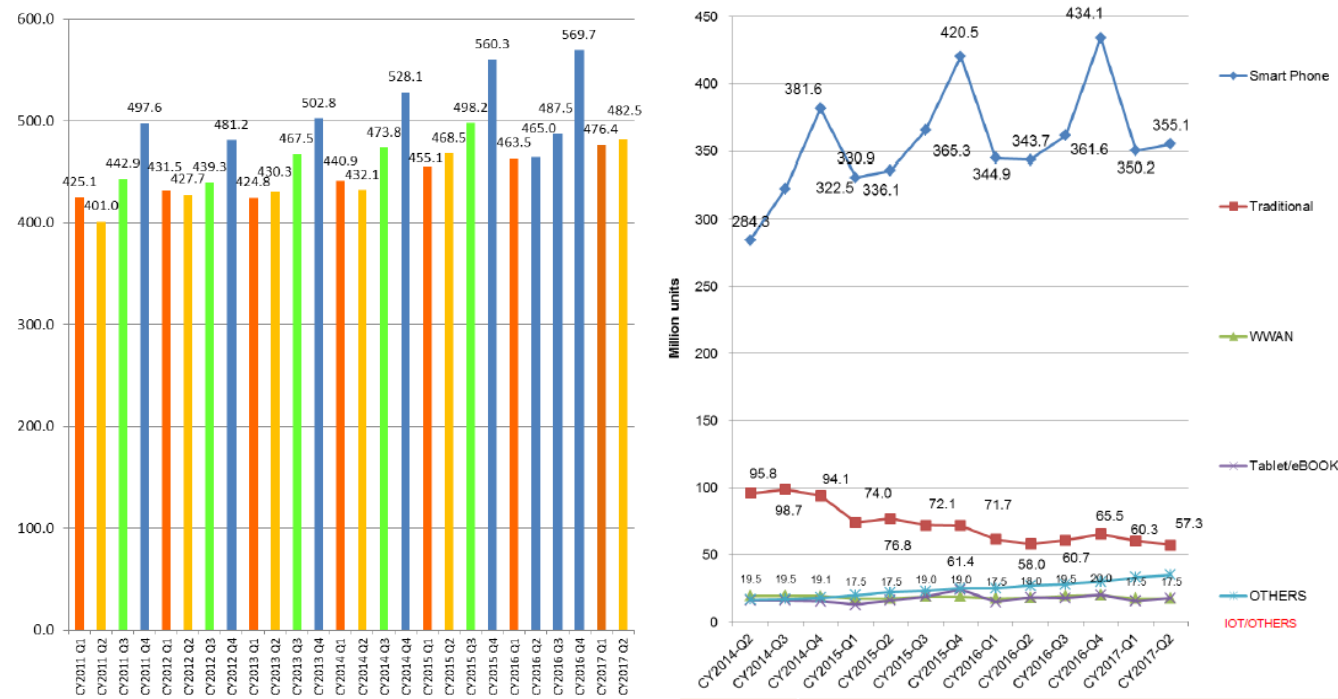
Released on August 20th 2018

# Report Sample

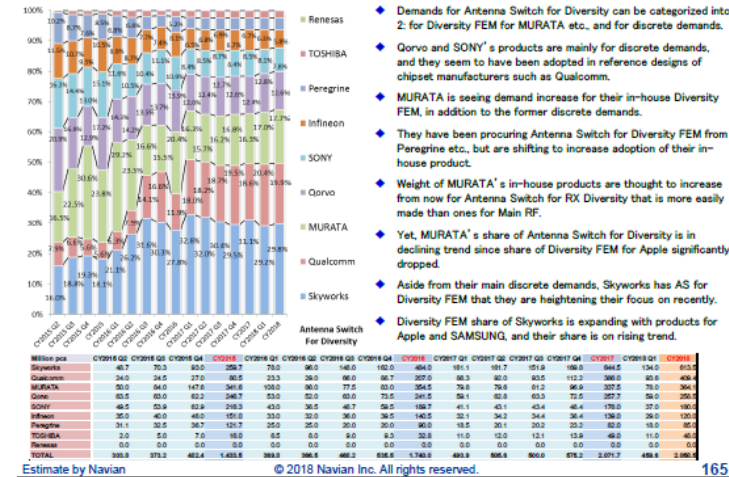
### RF Devices/Modules for Cellular Terminal in the report

- 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



### Antenna Switch for Diversity for Q1 CY2018 Result & CY2018 Forecast



### Quarterly Antenna Switch for Main RF Market Share Breakdown

Manufacturer	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018	Q4 2018
MURATA	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
RF360	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Skyworks	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Corvo	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
SONY	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Infinion	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
AUNGO	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
WISOL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SEMCO	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

### Quarterly Antenna Switch for Diversity Market Share Breakdown

Manufacturer	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018	Q4 2018
MURATA	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
RF360	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Skyworks	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Corvo	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
SONY	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Infinion	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
AUNGO	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
WISOL	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
SEMCO	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

### Antenna Switch Supply chain

FEM Makers	MURATA	RF360	Skyworks	Corvo	SONY	Infinion	AUNGO	WISOL	SEMCO
SONY GaAs/BOI	●	●	●	●	●	●	●	●	●
Corvo GaAs/BOI	●	●	●	●	●	●	●	●	●
Skyworks GaAs/BOI	●	●	●	●	●	●	●	●	●
Peregrine Si/SiC	●	●	●	●	●	●	●	●	●
TOSHIBA SiC	●	●	●	●	●	●	●	●	●
Infinion BULK Silicon	●	●	●	●	●	●	●	●	●
AUNGO SiC	●	●	●	●	●	●	●	●	●
Qualcomm SiC	●	●	●	●	●	●	●	●	●

**Outline of the report**

**RF Devices/Modules For Cellular Terminal Quarterly Market Report Q1 2018**  
-CD-ROM (PDF file)-

- The date of issue August 20th 2018
- The Documents of the report The PDF file of 224 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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**Traditional Handset**  
**Mobile Phone**

**Fixed Wireless Terminal**

Non-Voice

Voice

**PHASE 1. CELLULAR TERMINAL SHIPMENT AND UPDATE**

1. Cellular Terminal Quarterly Shipment History
2. Cellular Terminal Quarterly Shipment by Product Type
3. Cellular Terminal Quarterly Shipment by Standard
4. Cellular Terminal Annual Shipment
5. Annual Shipment History CY2000-CY2018
6. Annual Cellular Terminal Shipment Trend by Product Type
7. Annual Cellular Terminal Shipment Trend by Cellular Standard

**PHASE 2. SHIPMENT AND STATUS OF CELLULAR TERMINAL KEY MANUFACTURER**

1. Cellular Terminal Shipment by Maker & Product Type  
1Q 2014-1Q2018
2. Cellular Terminal Shipment by Maker & Cellular Standard  
1Q 2014-1Q2018
3. Annual Cellular Terminal Market Share Trend
  - (1) Cellular Terminal Shipment by Manufacturer & Product Type  
CY2014-CY2018
  - (2) Cellular Terminal Shipment by Manufacturer & Cellular Standard  
CY2014-CY2018
4. RF Platform Market Share by Cellular Terminal Manufacturer
  - (1) UMTS RF Platform Market Share by Cellular Terminal Manufacturer  
Quarterly data: 1Q 2014-1Q2018  
Annual data: CY2013-CY2018
  - (2) UMTS RF Platform Market Share by Cellular Terminal Manufacturer  
Quarterly data: 1Q 2014-1Q2018  
Annual data: CY2013-CY2018

**PHASE 3. RF Devices / Modules For Cellular Market Trend**

1. Front End Modules
  - (1) Quarterly Front End Module Market Trend
  - (2) Annual Front End Module Market Trend by Product
  - (3) Detailed Data of Front End Module Marke
  - (4) 1Q2018 : Front End Module Market Size & Trend by Product
    - ①Antenna Switch Module
    - ②RX Module
    - ③TX Module
    - ④FEMiD
    - ⑤All-in-One FEM

- ⑥PAMiD
- ⑦PAiD
- ⑧Filter Bank
- ⑨Duplexer Bank
- ⑩Multiplexer (Quadplexer/Hexaplexer)
- ⑪Antenna –Multiplexer
2. Antenna Switches
  - (1) Antenna Switch Market Size in 1Q2018
    - Antenna Switch TOTAL Market Size
    - Antenna Switch for Main RF Market Size by Throw Count
    - Antenna Switch for Main RF Market Size by Substrate
    - Antenna Switch for Diversity Market Size by Substrate
  - (2) Quarterly Detailed Data of Antenna Switches
  - (3) Annual Market Size of Antenna Switch in CY2018
    - Market Forecast of Antenna Switch
    - Market Forecast of Antenna Switch for Main RF by Throw Count
    - Market Forecast of Antenna Switch for Main RF by Substrate
    - Market Forecast of Antenna Switch for Diversity by Substrate
  - (4) Annual Detailed Data of Antenna Switch Market
3. Power Amplifier Module
  - (1) Power Amplifier Module Market Size in 1Q2018
  - (2) Annual Market Size of Power Amplifier Module by Product Type in CY2018
  - (3) Annual Detailed Data of Power Amplifier Module Market
4. Duplexers
  - (1) Duplexer Market Size in 1Q2018
  - (2) Annual Market Size of Duplexer by Band in CY2018
  - (3) Annual Detailed Data of Duplexer Market
5. Band Pass Filters
  - (1) Band Pass Filter Market Size in 1Q2018
  - (2) Annual Market Size of Band Pass Filter in CY2018
6. TCXOs
  - (1) TCXO Market Size in 1Q2018
  - (2) Annual Market Size of TCXO in CY2018

**PHASE 4. RF COMPONENT/MODULE KEY MANUFACTURER TRENDS**

1. Front End Modules
  - (1) Antenna Switch Module
    - ASM Market Share for Q2 CY2018 Result & CY2018 Forecast
    - ASM Market Share Breakdown per Product Type
  - (2) RX Module

- RX Module Market Share for 1Q CY2018 Result & CY2018 Forecast
  - RX Module Market Share Breakdown per Product Type
- (3) TX Module
  - TX Module Market Share for 1Q CY2018 Result & CY2018 Forecast
  - TX Module Market Share Breakdown per Product Type
- (4) FEMiD
  - FEMiD Market Share for 1Q CY2018 Result & CY2018 Forecast
  - FEMiD Market Share Breakdown per Product Type
- (5) PAiD
  - PAiD Market Share for 1Q CY2018 Result & CY2018 Forecast
  - PAiD Market Share Breakdown per Product Type
- (6) Filter Bank
  - Filter Bank Market Share for 1Q CY2018 Result & CY2018 Forecast
  - Filter Bank Market Share Breakdown per Product Type
- (6) Duplexer Bank
  - Duplexer Bank Market Share for 1Q CY2018 Result & CY2018 Forecast
  - Duplexer Bank Market Share Breakdown per Product Type
- (7) Multiplexer
  - Multiplexer Market Share for 1Q CY2018 Result & CY2018 Forecast
  - Multiplexer Market Share Breakdown per Product Type

2. Antenna Switches
  - (1) Antenna Switch Market Share for 1Q CY2018 Result & CY2018 Forecast
    - Antenna Switch for Main RF
    - Antenna Switch for Main RF =>SP7T
  - (2) Quarterly Antenna Switch for Main RF Market Share Breakdown
    - per Product Type
  - (3) Annual Antenna Switch for Main RF Market Share Breakdown
    - per Product Type
  - (4) Quarterly Antenna Switch for Diversity Market Share Breakdown
    - per Product Type
  - (5) Annual Antenna Switch for Diversity Market Share Breakdown
    - per Product Type
  - (6) Antenna Switch Supply chain

3. Power Amplifier Module
  - (1) PAM Market Share for 1Q CY2018 Result & CY2018 Forecast
  - (2) 3G/4G PAM Market Share for 1Q CY2018 Result & CY2018 Forecast
  - (3) UMTS PAM Supply chain
  - (4) M/M PAM Type & Supply Chain

- (5) M/M PAM Market Share for 1Q CY2018 Result & CY2018 Forecast
- (6) MM PA Shipment Breakdown per Manufacturer
- (7) Quarterly PAM Market Share Breakdown per Product Type
- (8) Annual Power Amplifier Module Market Share Breakdown
  - per Product Type
4. Duplexers
  - (1) Duplexer Market Share for 1Q CY2018 Result & CY2018 Forecast
  - (2) Duplexer Supply chain
  - (3) Quarterly Duplexer Market Share Breakdown per Product Type
  - (4) Annual Duplexer Market Share Breakdown per Product Type
5. Band Pass Filters
  - (1) BPF Market Share for 1Q CY2018 Result & CY2018 Forecast
  - (2) BPF Market Share history by Product Type: SAW & BAW
6. TCXOs
  - (1) TCXO Market Share for 1Q CY2018 Result & CY2018 Forecast
  - (2) TCXO Market Share Breakdown per Product Type
  - (3) TCXO Supply chain

**PHASE 5. Hot Products Teardown**

1. Teardown Summary
  - Product outline: Product type/Release date/price/Network
  - RF Components / Modules usage
2. GALAXY S9+ SM-G965U
  - Latest SAMSUNG Flagship Smart phone US Version-
3. NOKIA 8 Sirocco
  - Latest NOKIA Flagship Smart phone-
4. NOKIA 7Plus
  - Latest NOKIA Middle-end Smart phone-
5. NOKIA 6.1
  - Latest NOKIA Low-end Smart phone-

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

Report Title	Price	Initial
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<input checked="" type="checkbox"/> Annual Report (four quarterly issues)	From YY (    ), QTR. (    ) for one year. *Example: YY (18), QTR. (1).	JPY560,000

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