

Declaration Letter

Hereby, we, HMD Global Oy certify that the product TA-1538 & TA-1559 & TA-1551 & TA-1543&TA-1546&TA-1549&TA-1553&TA-1556&TA-1547&TA-1555&TA-1563&TA-1545 : the spec difference as below:

| SKU | TA-code | Band | Band Support Type | SIM | SIM Support Type | Camera | Antenna1 | Antenna2 | Note |
|------|---------|--|-------------------|-----|------------------|--------|------------|-----------|-------------|
| SKU3 | TA-1549 | GSM GSM850, GSM900, DCS1800 WCDMA B1, B5, B8 LTE B1, B3, B5, B7, B8, B20, B28, B38, B40, B41 | Hardware | DS | Hardware | Yes | GF018-MAIN | No | Main Sample |
| SKU3 | TA-1546 | The same as TA-1549 | Hardware | DS | Hardware | No | GF018-MAIN | No | |
| SKU1 | TA-1538 | Base on TA-1549 Del LTE B7, B20, B28, B38, B40, B41 | Hardware | DS | Hardware | No | GF018-MAIN | No | |
| SKU1 | TA-1559 | Base on TA-1549 Del LTE B7, B20, B28, B38, B40, B41 | Hardware | DS | Hardware | Yes | GF018-MAIN | No | |
| SKU2 | TA-1551 | Base on TA-1549 Del LTE B28, B38, B40, B41 | Hardware | DS | Hardware | No | GF018-F | GF018-DIV | |
| SKU2 | TA-1543 | Base on TA-1549 Del LTE B28, B38, B40, B41 | Hardware | DS | Hardware | Yes | GF018-F | GF018-DIV | |
| SKU4 | TA-1553 | Base on TA-1549 DEL LTE B7, B20, B28 ADD LTE B39 | Hardware | DS | Hardware | No | GF018-MAIN | No | |
| SKU4 | TA-1556 | Base on TA-1549 DEL LTE B7, B20, B28 ADD LTE B39 | Hardware | DS | Hardware | Yes | GF018-MAIN | No | |
| SKU5 | TA-1547 | Base on TA-1549 DEL LTE B20, B38, B41 ADD PCS1800 ADD WCDMA B2, B4 ADD LTE B2, B4, B66 | Hardware | DS | Hardware | No | GF018-MAIN | No | |
| SKU5 | TA-1563 | Base on TA-1549 DEL LTE B20, B38, B41 ADD PCS1800 ADD WCDMA B2, B4 ADD LTE B2, B4, B66 | Hardware | DS | Hardware | Yes | GF018-MAIN | No | |
| SKU5 | TA-1555 | Base on TA-1549 DEL LTE B20, B38, B41 ADD PCS1800 ADD WCDMA B2, B4 ADD LTE B2, B4, B66 | Hardware | SS | Hardware | No | GF018-MAIN | No | |
| SKU5 | TA-1545 | Base on TA-1549 DEL LTE B20, B38, B41 ADD PCS1800 ADD WCDMA B2, B4 ADD LTE B2, B4, B66 | Hardware | SS | Hardware | Yes | GF018-MAIN | No | |

Main RF components changes:(SKU 1 VS SKU3)

| | Antenna | AP | Modem | Transceiver | Power Amplifier | Tx SAW Filter | Rx SAW Filter | Duplexer | ASM |
|------------|---------|----|-------|-------------|-----------------|---------------|---------------|---|-----|
| SKU3(main) | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| SKU1 | NO | NO | NO | NO | NO | NO | NO | YES(DEL: LTE B7/B20/28AB/38/40/B41(194M)) | NO |

Main RF components changes:(SKU2 VS SKU3) :

| | Antenna | AP | Modem | Transceiver | Power Amplifier | Tx SAW Filter | Rx SAW Filter | Duplexer | ASM |
|------------|---------|----|-------|-------------|-----------------|------------------------------|---|----------------|-----|
| SKU2 | YES | NO | NO | NO | NO | YES (del:B38 ,B40,B41(194M)) | YES (del:B38,B40,B41(194M))add:diversity Ant: (B1/3/5/7/8/20) | YES(del: 28AB) | NO |
| SKU3(main) | NO | NO | NO | NO | NO | NO | NO | NO | NO |

Main RF components changes:(SKU2 VS SKU5) :

| | Antenna | AP | Modem | Transceiver | Power Amplifier | Tx SAW Filter | Rx SAW Filter | Duplexer | ASM |
|------------|---------|----|-------|-------------|-----------------|---------------|--|--|-----|
| SKU5(main) | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| SKU2 | YES | NO | NO | NO | NO | YES (del:B40) | YES (add diversity Ant:B1,3,5,7,8,20 ,DEL:B40) | YES (DEL:GSM: B2,DEL:WCDMA:B2,4,DEL:LTE: B2,4,28,40 ,66 ADD:B20) | NO |

Their circuit design, layout and internal wiring are identical. The main chip, RF transceiver, AP, FEM, design and mode are the same, but due to the difference in frequency band, the diplex and filter used are also different.

1. SKU2 with diversity antenna, other configurations without diversity antenna, PCB and layout the same, only BOM and antenna different.
2. SKU3 vs. SKU4 In addition to the diplexers and the difference in LTE frequency band , SKU3 LTE B41 is full band; SKU4 LTE B41 BW is 120MHz only , others are the same.
3. TA-1563 vs TA-1545 are just the difference between single and double cards, the card slot of TA-1545 has become a single card, others are the same.
4. TA-1547 vs TA-1555 are just the difference between single and double cards, the card slot of TA-1555 has become a single card, others are the same.



Signature: _____

Name: Ingrid Shi

Position: Head of Portfolio and Product Management, Entry Devices

Email: ingrid.shi@hmdglobal.com

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