

HMD Global Oy

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Date: May 31, 2017

Product Equality Declaration

We, HMD Global Oy, declare on our sole responsibility for the product of TA-1020, TA-1028 and TA-1038 as below:

Model name	TA-1020	TA-1028	TA-1038
SIM	SS	SS	DS
FCC ID	2AJOTTA-1020	2AJOTTA-1028	2AJOTTA-1038
Changes item	1. Change the HW and PCB 2. Add 2 nd source of component 3. Change the SW version		

The details of the changes have been listed as below:

1. HW Change from DVT to PVT/MP

- Delete NUL3335/NUL3340 and add C3353/C3354/C3356/C3357 on PVT board to optimize matching structure, according the advice from MTK, we must keep two series capacitance between balun and RFIC for better RF performance, change the matching structure, we have more solution to improve the RF performance. We can fine tune C3353/C3354/C3356/C3357 if we need.
- Change L3318/ NUL3319 from 7.5nH to NC to improve B28B Rx sensitivity
- Change L3317 from NC to 22nH to improve B8 Rx sensitivity
- Change NUL3320 from 18nH to NC to improve B8 Rx sensitivity
- Change L3304 from NC to 0.5pF to improve B7 CSE
- Change NUC3246 from 0.5pF to NC to improve B7 CSE
- Change L3212 from 2.2nH to 12pF to improve B7 CSE
- Add ZR1201(0ohm), C6109(33pF),C6110(33pF),C6111(33pF),C6112(33pF),C6113(33pF) , R5007(0ohm), R5008(0ohm) on PVT board to optimize desense at camera and LCM on state.
- Enlarge the gap between U5001 and U5003 for improving GPS clock drift and optimize the placement about wifi /BT GPS part on the PCB board
- Delete SD card test point(TP4001/ TP4002 /TP4003 /TP4004), they will interfere the data single
- Add ZC2411/ ZC2412 , they just contact to GND, because their size is bigger than others, so they can protect other devices from short to PMU Shielding
- Mechanical section

2. Add 2nd sources of component from previous to current model.

Version	Original		New	
Commodity	Main source Supplier	Main source PN	2nd source Supplier	2nd source PN
Memory	SANDISK	SDADF4AP-16G	Hynix	H9TQ17ABJTBCUR-KUM
RF cable connector	Nwing	KMC1001-F016-7F	Singee	RFR40-060A010-KP
Dual Nano SIM card	Amphenoel	C707 10M008 679 2/C707 10M008 683 2	ELE	SA-0801-111/SA13-1 20412-02
Material of PCB	Tripod	F030010UU9016-02	Wuzhu	TKHB101510A0
Microphone	KNOWLES	MIC_3.5*2.65*0.98_1.5- 3.6V	BSE	F4-(A)HMOE-J098R3 8-F2124-5P
Power Related 1	TI	TPS65132B5YFFR	Fitipower	FP7720FE9
	MURATA	S09Y2G53000	Kyocera	SD18-2535R8UBM1
RF Component 2	MURATA	SAYEY1G88CA0B0AR 05	Kyocera	SD18-1880R8UBA1
	INFINEON	BGA524N6E6327	Airoha	AR8125
	MURATA	SAYEY836MCA0F0AR 05	Kyocera	SD18-0836R8UBQ1
	Nwing	WDR0102-ZZS45-DH	Singee	RFL40-2A10253
RF Cable	DAHAN	D63067A	Mektec	NZI835-02
FPC	OBO/Inpaq	IAS-200001-01	GYT	10315110811019
Speaker	AAC	NPR0612A-J-01-02	BSE	WS120620HS01N

3. Change the SW version from 000C_1_26A to 000C_1_39M

V6	000C_1_26A	Fix can't set cell broadcast channel
V7	000C_1_301	The ME do not display the basic icon
V8	000C_1_321	Fix The me can't detect launch browser state Fix IMS emergency call fail MTK PATCH: MOLY00225817
V9	000C_1_335	Fix no help key in STK
V10	000C_1_345	Fix emergency call timer out Fix open channel and close channel fail
V11	000C_1_346	1. Emergency call issue 2. WCDMA Band5 data throughput issue.
V12	000C_1_39M	Support second source memory Update MTK critical patch Update google security patch MMS group messaging to be switched OFF by default Support SIMLock Fix other issues