Motorola Mobility LLC.
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

Product Equality Declaration

We, Motorola Mobility LLC. declare on our sole responsibility for the product of 10647, 10869, 10870, 12665, 10874, 10873 and the differences as below:

- RF section

1. Frequency band difference

Radio Functionality Matrix -Same Row indicates Signal Path is Shared among SKUs				
SKU	NA	LATAM	EMEA	APAC
Model Name	10647	10869/10870	12665/10874	10873
FCC ID	IHDT56WK1	IHDT56WK4	IHDT56WK3	IHDT56WK2
SIM	SS	DS/SS	DS/SS	DS
GSM 850	Y	Y	Y	Y
GSM 900	Y	Y	Y	Y
GSM 1800	Y	Y	Y	Y
GSM 1900	Y	Y	Y	Y
LTE 1	Y	Y	Y	Y
LTE 2	Y	Y	N	Y
LTE 3	Y	Y	Y	Y
LTE 4	Y	Y	Y	Y
LTE 5	Y	Y	Y	Y
LTE 7	Y	Y	Y	Y
LTE 8	Y	N	Y	Y
LTE 12	Y	Y	N	N
LTE 13	Y	N	N	N
LTE 17	Y	Y	N	N
LTE 18	N	N	N	Y
LTE 19	N	N	N	Y
LTE 20	Y	N	Y	N
LTE 25	Y	N	N	N
LTE 26	Y	N	N	Y
LTE 28	Y	Y	Y	Y
LTE 38	Y	N	Y	Y
LTE 40	N	N	Y	Y
LTE 41 (NB 2545-2655MHz)	N	N	N	N
LTE 41 (FB 2496-2690MHz)	Y	N	N	Y
LTE 66	Y	Y	N	N
WCDMA 1	Y	Y	Y	Y
WCDMA 2	Y	Y	Y	Y
WCDMA 4	Y	Y	Y	Y
WCDMA 5	Y	Y	Y	Y
WCDMA 8	Y	Y	Y	Y
WCDMA 19	N	N	N	Y
CDMA BC0	Y	N	N	N
CDMA BC1	Y	N	N	N
CDMA BC10	Y	N	N	N
WLAN 2.4GHz	Y	Y	Y	Y
WLAN 5GHz	Y	Y	Y	Y
Bluetooth	Y	Y	Y	Y
NFC	Y	Y	Y	Y

2. Board difference

		NA (10647)	LATAM (10869/10870)	EMEA (12665/10874)	APAC (10873)
WWAN	IC	SDR660	SDR660	SDR660	SDR660
	Component on PCB	See HW section			
	Antenna	With the same antenna pattern and match			
BT	IC	WCN3980	WCN3980	WCN3980	WCN3980
	Component on PCB	NA have 2.4G FEM with BT by-pass	Same across all other SKUs: LATAM/EMEA/APAC		
	Antenna	With the same antenna pattern and match			
WLAN 2.4GHz	IC	WCN3980	WCN3980	WCN3980	WCN3980
	Component on PCB	NA have 2.4G FEM with BT by-pass	Same across all other SKUs: LATAM/EMEA/APAC		
	Antenna	With the same antenna pattern and match			
WLAN 5GHz	IC	WCN3980	WCN3980	WCN3980	WCN3980
	Component on PCB	NA have 5G FEM	Same across all other SKUs: LATAM/EMEA/APAC		
	Antenna	With the same antenna pattern and match			
NFC	IC	PN553	PN553	PN553	PN553
	Component on PCB	Same across all SKUs			
	Antenna	With the same antenna pattern and match			
E-compass	IC	MMC3630KJ	MMC3630KJ	MMC3630KJ	MMC3630KJ
	Component on PCB	Same across all SKUs			
SAR cap Sensor	IC	LTR-559ALS-028WA	LTR-559ALS-028WA	LTR-559ALS-028WA	LTR-559ALS-028WA
	Component on PCB	Same across all SKUs			
	Antenna	With the same antenna pattern and match			

■ RF section

- GSM bands and CDMA bands: same component on PCB for all SKUs.
- UMTS bands and LTE bands: different bands with different duplex and saw filter
- Band1/3 TX and PRX: NA/LATAM use duplexer separately, EMEA/APAC use Quaplexer
- Band1 DRX: NA/LATAM use Band25+66 dual SAW, EMEA/APAC use Band1+3 dual SAW
- Band3 DRX: NA/LATAM use single SAW, EMEA/APAC use dual SAW
- Band2 TX and PRX: NA uses band25 duplexer, LATAM/APAC use band2 duplexer
- Band2 DRX: NA/LATAM use dual SAW, APAC use single SAW

- Band4 TX and PRX: NA/LATAM use band66 duplexer, EMEA & APAC use Quaplexer
- Band4 DRX: NA/LATAM use Band25+66 dual SAW, EMEA/APAC use Band1+3 dual SAW
- Band5 TX and PRX: NA/APAC use band26 duplexer, LATAM/EMEA use band5 duplexer
- Band5 DRX: NA/APAC use Band26 SAW, LATAM/EMEA use Band5 SAW
- Band41: EMEA use narrow band saw; NA/APAC use full band saw.
- RF trace: same across EMEA/APAC, LATAM/NA SKUs.
- PCB layout: same across EMEA/APAC/LATAM/NA SKUs.
- PCBA: for any DS/SS models under the same SKU the same PCBA will be used. For example, EMEA DS/SS will share the same PCBA and the only difference is that SS model will have only one SIM slot. PCBA of each SKU is unique because the RF components will differ from SKU to SKU.
- WLAN/BT/GPS/Diversity antenna type, antenna pattern, antenna location, antenna matching value and chipset: same across EMEA/APAC/LATAM/NA SKUs.
- NA SKU has different BT/WLAN2.4G/5G FEM compare with other Skus.
- NFC antenna type, antenna pattern, antenna location and chipset: same across EMEA/APAC/LATAM/NA SKUs.
- Main antenna 01, covers 699~960 MHz and 1710~2200 MHz and Main antenna 02, covers 2300~2700MHz are sharing the same antenna pattern, location , matching and chipset with all SKUs.
- NA, EMEA,APAC share the same earphone Cosonic SH38C16617 and LATAM SKU use Cosonic SH38C16618.

■ SW section

For this particular Motorola project all SKUs will be sharing the same SW version. The main differences exist per SKUs are related to RF Bands supported (including here availability of CDMA RAT or not). Regarding the SW/FW, there is NOT much difference between SKUs. Note that specific features are enabled via MCFG depending on SIM Card inserted to device, as the lab tests are usually performed with a base FSG setup, we should not expect differences on the protocol level between all SKUs.

■ Mechanical section

There is no difference in mechanical design and materials used for all SKUs of Payton. There are differences in terms of memory configuration and number of SIM's supported across different SKUs.

Region	Country / Sub-region	RF SKU	Payton	SIM	Memory
NA	United States	NA SKU	10647	SS	3+32G
LATAM	LATAM	LATAM SKU	10869	DS	3+32G
			10870	SS	3+32G
EMEA	EMEA	EMEA SKU	12665	DS	3+32G
			10874	SS	3+32G
APAC	APAC	APAC SKU	10873	DS	4+64G

- EMEA, APAC, LATAM & NA SKUs will use adaptor as below

Country / Sub-region	TRADE / MODEL	DESCRIPTION	RF SKU	Payton	SIM
United States	Salom:SC-22, SC-23, SC-24, SC-25, SC-26 Chenyang:SC-22, SC-23, SC-24, SC-25, SC-26 Liteon: SC-22, SC-23, SC-24	I/P: 100-240 Vac,500 mA, O/P:5Vdc,3000mA or 9Vdc,1600mA or 12Vdc,1200mA	NA SKU	10647	SS
LATAM	Salom:SC-22, SC-23,	I/P: 100-240 Vac,500	LATAM SKU	10869	DS

	SC-24, SC-25, SC-26 ,SC-28,SC-28(Local Build) Chenyang:SC-22, SC-23, SC-24, SC-25, SC-26 Liteon: SC-22, SC-23, SC-24	mA, O/P:5Vdc,3000mA or 9Vdc,1600mA or 12Vdc,1200mA		10870	SS
EMEA	Salom:SC-22, SC-23, SC-24, SC-25, SC-26 Chenyang:SC-22, SC-23, SC-24, SC-25, SC-26 Liteon: SC-22, SC-23, SC-24	I/P: 100-240 Vac,500 mA, O/P:5Vdc,3000mA or 9Vdc,1600mA or 12Vdc,1200mA	EMEA SKU	12665	DS
				10874	SS
APAC	Salom:SC-22, SC-23, SC-24, SC-25, SC-26 Chenyang:SC-22, SC-23, SC-24, SC-25, SC-26 Liteon: SC-22, SC-23, SC-24	I/P: 100-240 Vac,500 mA, O/P:5Vdc,3000mA or 9Vdc,1600mA or 12Vdc,1200mA	APAC SKU	10873	DS

Except listings above, the others are all the same.

Should you have any questions or comments regarding this matter, please have my best attention.
Sincerely yours,

Lin Biaochun

_____

Contact Person: Lin Biaochun
COMPANY: Motorola Mobility LLC.
Tel: 86-18150396560
E-Mail: Linbc@lenovo.com