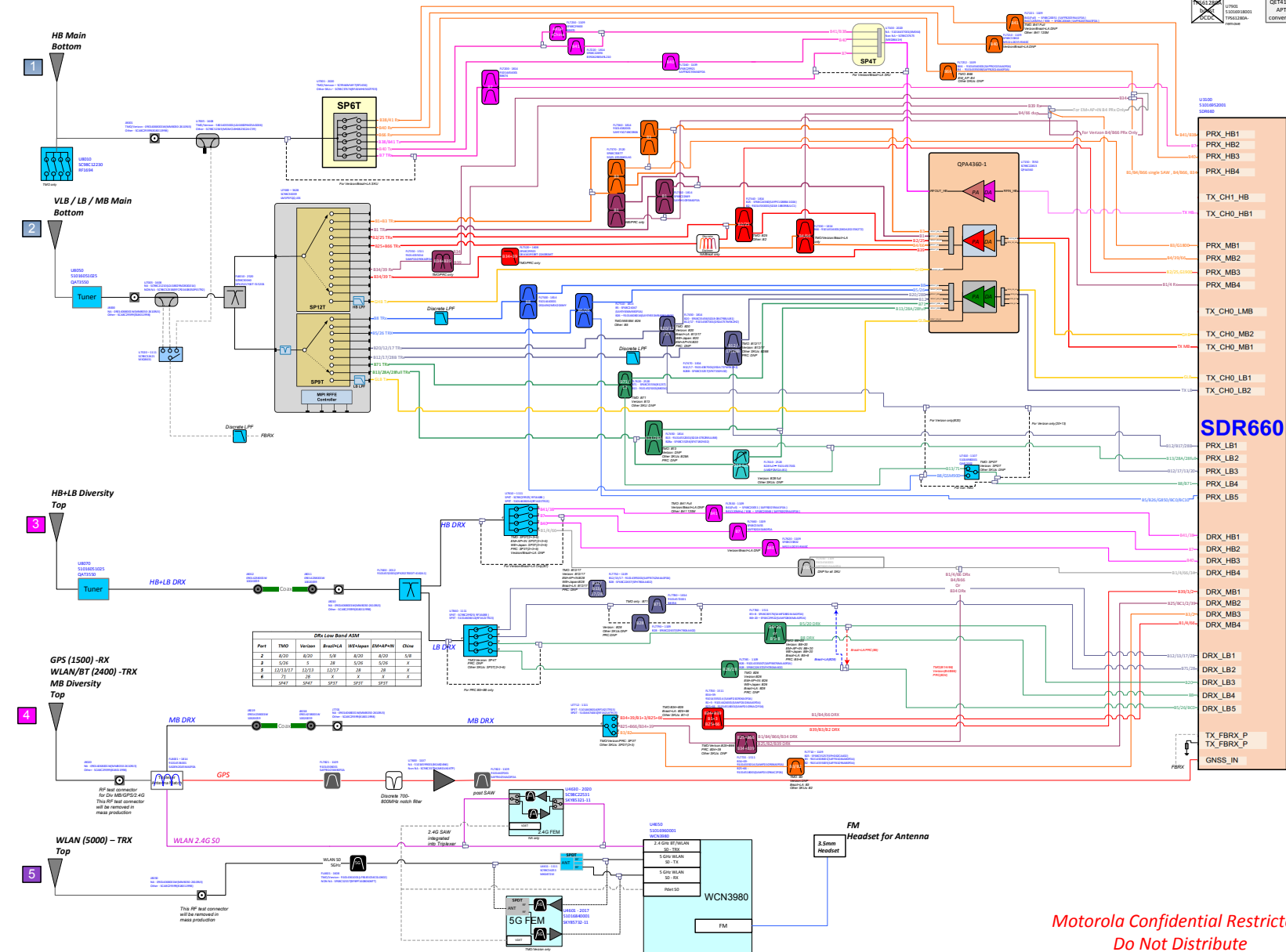


Rio H(Lake) RF Block Diagram – Superset

SKU	LTE Bands	WCDMA Bands	CDMA Bands	GSM Bands	TD-SCDMA Bands	2DL CA	3DL CA	Uplink CA
1. TMO:	B1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 20, 25, 26, 38, 39, 40, 41(Full), 66, 71	B1, 2, 4, 5, 8	BC0, BC1, BC10	850,900,1800,1900	-	2C, 2+(2 4 5 12 66 71),4+(4 5 12 66),25+(25 26 41),26+41,41C,41+41,66B,66C,66+(66 71)	Note1	41C
2. Verizon:	B1, 2, 3, 4, 5, 7, 8, 12, 13, 20, 28, 66	B1, 2, 4, 5, 8	-	850,900,1800,1900	-	2+(2 4 5 13 66),4+(4 5 13),5B,5+(5 66),13+66,66B,66C,66+66	Note2	-
3. Brazil+LA:	B1, 2, 3, 4, 5, 7, 12, 17, 28, 66	B1, 2, 4, 5, 8	-	850,900,1800,1900	-	2+(4 7 28),B3+7,4+(5 7 12 17 28),7C,7B,7+(7 28),12+66,66B,66C,66+66	-	-
4. WE+Japan:	B1, 2, 3, 4, 5, 7, 8, 18, 19, 20, 26, 28, 38, 40, 41(AXGP+China)	B1, 2, 4, 5, 19	-	850,900,1800,1900	-	1+(3 7 8 18 19 20 26 28 38 40),3C,3+(3 5 7 8 19 20 28 38 40 41),7C,7B,7+(7 8 20 28),28+41,40C,41C,41+41	-	-
5. EM+AP+IN:	B1, 2, 3, 4, 5, 7, 8, 18, 19, 20, 26, 28, 38, 40, 41(AXGP+China)	B1, 2, 4, 5, 19	-	850,900,1800,1900	-	-	-	-
6. China:	B1, 2, 3, 4, 5, 7, 8, 34, 38, 39, 40, 41(China)	B1, 2, 5, 8	BC0	850,900,1800,1900	834, 39	1+3,3C,3+3,38C,39C,39+41,40C,41C,41+41	-	38C,39C,40C,41C

Band	DL	UL
LB:		
B71:	DL 617-652,	UL 663-698
B12:	DL 729-746,	UL 699-716
B17:	DL 734-746,	UL 704-716
B13:	DL 746-756,	UL 777-787
B28:	DL 758-803,	UL 703-748
B20:	DL 791-821,	UL 832-862
B25:	DL 859-894,	UL 814-849
BC10:	DL 861-869,	UL 816-824
B18:	DL 860-875,	UL 815-830
B5,BC0,G850:	DL 869-894,	UL 824-849
B19:	DL 875-890,	UL 830-845
B8, G900:	DL 925-960,	UL 880-915
MB:		
B3,G1800:	DL 1805-1880,	UL 1710-1785
B2,BC1,G1900:	DL 1930-1990,	UL 1850-1910
B25:	DL 1930-1995,	UL 1850-1915
B4:	DL 2110-2155,	UL 1710-1755
B1:	DL 2110-2170,	UL 1920-1980
B66:	DL 2110-2200,	UL 1710-1780
B39:	TDD 1880-1920	
B34:	TDD 2010-2025	
HB:		
B7:	DL 2620-2690,	UL 2500-2570
B40:	TDD 2300-2400	
B41:	TDD 2496-2690	
B38:	TDD 2570-2620	
WiFi:		
WiFi 2.4G:	2400-2500 MHz	
WiFi 5G:	5150-5850MHz	
GNSS:		
GNSS:	1574.397-1605.886 MHz	



Note1:

2C+12A
 2+2+(4|12|66|71)
 2+4+(4|5|12|71)
 2+12+66
 2+66C, 2+66B, 2+66+66, 2+66+71
 4+4+(12|71)
 12+66C, 12+66+66
 25+25+26, 25+41C
 26+41C
 41D, 41A+41C
 66C+71A, 66A+66C, 66A+66B, 66+66+71

Mid Band Rx port mapping

Port	TMO	Verizon	China	EM+AP+IN	EM+AP+IN	EM+AP+IN	EM+AP+IN	EM+AP+IN	EM+AP+IN
MB1	1	1	1	1	1	1	1	1	1
MB2	2	2	2	2	2	2	2	2	2
MB3	3	3	3	3	3	3	3	3	3
MB4	4	4	4	4	4	4	4	4	4
MB5	5	5	5	5	5	5	5	5	5

Low Band Rx port mapping

Port	TMO	Verizon	China	EM+AP+IN	EM+AP+IN	EM+AP+IN	EM+AP+IN	EM+AP+IN	EM+AP+IN
LB1	1	1	1	1	1	1	1	1	1
LB2	2	2	2	2	2	2	2	2	2
LB3	3	3	3	3	3	3	3	3	3
LB4	4	4	4	4	4	4	4	4	4
LB5	5	5	5	5	5	5	5	5	5

Note2:

2+2+(4|5|13|66)
 2+4+(4|5|13)
 2A+5B,2+5+66
 2+13+66
 2A+66B, 2A+66C, 2+66+66
 4+4+(5|13)
 5+5+66,5A+66B,5A+66C,5B+66A,5+66+66
 13A+66B, 13A+66C,13+66+66
 66A+66C

- Superset**
1. TMO SKU
 2. Verizon SKU
 3. Brazil+LA
 4. EM+AP+IN
 5. WE+Japan
 6. PRC

RIO-H Block Diagram, Based on QPA_2018-0614

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