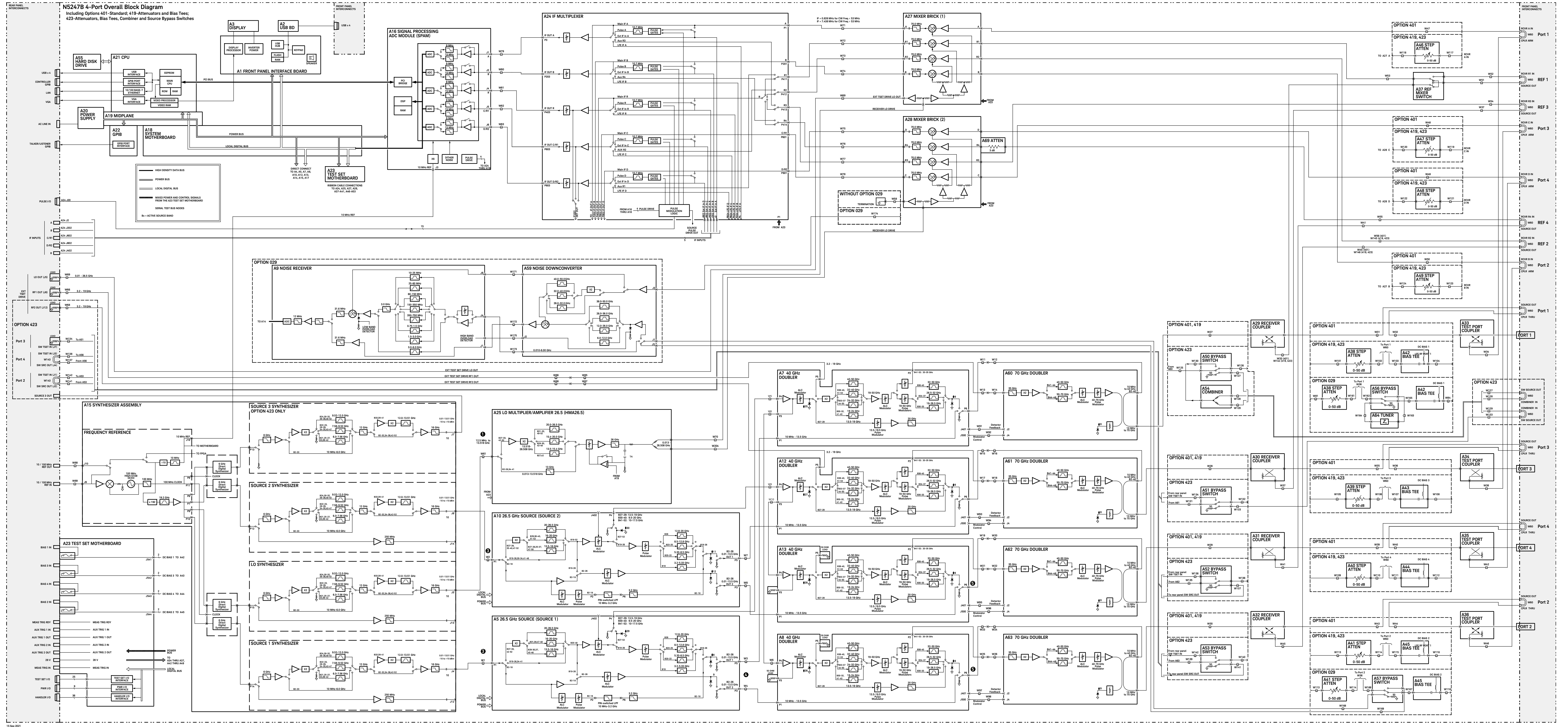


Band	Mixer Brick LO Number	LO Synthesizer Frequency (GHz)	A25 HMA26.5 Frequency (GHz)	RF Synthesizer Frequency (GHz)	A1/A10 Source Frequency (GHz)	A7/A8/A12/A13 40 GHz Synthesizer Frequency (GHz)	A50/A51/A52/A53 70 GHz Synthesizer Frequency (GHz)
1	1	0.01348 to 0.01348	0.01348 to 0.01348	0.010 to 0.014	0.010 to 0.014	0.010 to 0.014	0.010 to 0.014
2	1	0.01648 to 0.02168	0.01648 to 0.02168	0.014 to 0.019	0.014 to 0.019	0.014 to 0.019	0.014 to 0.019
3	1	0.02148 to 0.02848	0.02148 to 0.02848	0.019 to 0.027	0.019 to 0.027	0.019 to 0.027	0.019 to 0.027
4	1	0.02848 to 0.03648	0.02848 to 0.03648	0.027 to 0.038	0.027 to 0.038	0.027 to 0.038	0.027 to 0.038
5	1	0.04048 to 0.05048	0.04048 to 0.05048	0.038 to 0.052	0.038 to 0.052	0.038 to 0.052	0.038 to 0.052
6	1	0.05048 to 0.06248	0.05048 to 0.06248	0.052 to 0.075	0.052 to 0.075	0.052 to 0.075	0.052 to 0.075
7	1	0.06248 to 0.07648	0.06248 to 0.07648	0.075 to 0.105	0.075 to 0.105	0.075 to 0.105	0.075 to 0.105
8	1	0.10548 to 0.13348	0.10548 to 0.13348	0.105 to 0.146	0.105 to 0.146	0.105 to 0.146	0.105 to 0.146
9	1	0.13348 to 0.17248	0.13348 to 0.17248	0.146 to 0.205	0.146 to 0.205	0.146 to 0.205	0.146 to 0.205
10	1	0.17248 to 0.22248	0.17248 to 0.22248	0.205 to 0.290	0.205 to 0.290	0.205 to 0.290	0.205 to 0.290
11	1	0.22248 to 0.28448	0.22248 to 0.28448	0.290 to 0.396	0.290 to 0.396	0.290 to 0.396	0.290 to 0.396
12	1	0.39648 to 0.50048	0.39648 to 0.50048	0.396 to 0.500	0.396 to 0.500	0.396 to 0.500	0.396 to 0.500
13	1	0.50048 to 0.63548	0.50048 to 0.63548	0.500 to 0.628	0.500 to 0.628	0.500 to 0.628	0.500 to 0.628
14	1	0.63548 to 0.80048	0.63548 to 0.80048	0.628 to 0.800	0.628 to 0.800	0.628 to 0.800	0.628 to 0.800
15	1	0.80048 to 1.00048	0.80048 to 1.00048	0.800 to 1.000	0.800 to 1.000	0.800 to 1.000	0.800 to 1.000
16	1	1.00048 to 1.50048	1.00048 to 1.50048	1.000 to 1.500	1.000 to 1.500	1.000 to 1.500	1.000 to 1.500
17	1	1.50048 to 2.00048	1.50048 to 2.00048	1.500 to 2.000	1.500 to 2.000	1.500 to 2.000	1.500 to 2.000
18	1	2.00048 to 3.20048	2.00048 to 3.20048	2.000 to 3.200	2.000 to 3.200	2.000 to 3.200	2.000 to 3.200
19	1	3.20048 to 5.33648	3.20048 to 5.33648	3.200 to 5.332	3.200 to 5.332	3.200 to 5.332	3.200 to 5.332
20	1	5.33648 to 8.00048	5.33648 to 8.00048	5.332 to 8.000	5.332 to 8.000	5.332 to 8.000	5.332 to 8.000
21	1	8.00048 to 11.00048	8.00048 to 11.00048	8.000 to 11.000	8.000 to 11.000	8.000 to 11.000	8.000 to 11.000
22	1	11.00048 to 15.00048	11.00048 to 15.00048	11.000 to 15.000	11.000 to 15.000	11.000 to 15.000	11.000 to 15.000
23	1	15.00048 to 20.00048	15.00048 to 20.00048	15.000 to 20.000	15.000 to 20.000	15.000 to 20.000	15.000 to 20.000
24	1	20.00048 to 26.00048	20.00048 to 26.00048	20.000 to 26.000	20.000 to 26.000	20.000 to 26.000	20.000 to 26.000
25	1	26.00048 to 33.00048	26.00048 to 33.00048	26.000 to 33.000	26.000 to 33.000	26.000 to 33.000	26.000 to 33.000
26	1	33.00048 to 42.00048	33.00048 to 42.00048	33.000 to 42.000	33.000 to 42.000	33.000 to 42.000	33.000 to 42.000
27	1	42.00048 to 53.00048	42.00048 to 53.00048	42.000 to 53.000	42.000 to 53.000	42.000 to 53.000	42.000 to 53.000
28	1	53.00048 to 66.00048	53.00048 to 66.00048	53.000 to 66.000	53.000 to 66.000	53.000 to 66.000	53.000 to 66.000
29	1	66.00048 to 80.00048	66.00048 to 80.00048	66.000 to 80.000	66.000 to 80.000	66.000 to 80.000	66.000 to 80.000
30	1	80.00048 to 100.00048	80.00048 to 100.00048	80.000 to 100.000	80.000 to 100.000	80.000 to 100.000	80.000 to 100.000
31	1	100.00048 to 128.00048	100.00048 to 128.00048	100.000 to 128.000	100.000 to 128.000	100.000 to 128.000	100.000 to 128.000
32	1	128.00048 to 160.00048	128.00048 to 160.00048	128.000 to 160.000	128.000 to 160.000	128.000 to 160.000	128.000 to 160.000
33	1	160.00048 to 200.00048	160.00048 to 200.00048	160.000 to 200.000	160.000 to 200.000	160.000 to 200.000	160.000 to 200.000
34	3	8.8358 to 9.0051	8.8358 to 9.0051	13.250 to 13.510	13.250 to 13.510	26.500 to 27.020	26.500 to 27.020
35	3	9.0051 to 9.5025	9.0051 to 9.5025				
36	3	9.5025 to 10.1358	9.5025 to 10.1358				
37	3	10.1358 to 10.6691	10.1358 to 10.6691	7.600 to 8.000	15.000 to 16.000	30.400 to 32.000	30.400 to 32.000
38	3	10.6691 to 12.0338	10.6691 to 12.0338	8.000 to 8.825	16.000 to 18.000	32.000 to 36.100	32.000 to 36.100
39	3	12.0338 to 12.6958	12.0338 to 12.6958	9.025 to 9.520	18.000 to 19.040	36.100 to 38.000	36.100 to 38.000
40	3	12.6958 to 13.3358	12.6958 to 13.3358	9.520 to 10.000	19.040 to 20.000	38.000 to 40.000	38.000 to 40.000
41	3	13.3358 to 13.7275	13.3358 to 13.7275	10.000 to 10.133	19.000 to 19.133	40.000 to 40.500	40.000 to 40.500
42	3	8.7902 to 8.7928	13.5120 to 13.5278	10.133 to 11.455	10.133 to 11.455	29.200 to 45.800	29.200 to 45.800
43	3	7.6379 to 8.0012	15.2758 to 16.0025	11.455 to 12.000	22.910 to 24.000	45.800 to 48.000	45.800 to 48.000
44	3	8.0012 to 8.3346	16.0025 to 16.6651	12.000 to 12.500	24.000 to 25.000	48.000 to 50.000	48.000 to 50.000
45	3	8.3346 to 8.8346	16.6651 to 17.6651	12.500 to 13.250	25.000 to 26.500	50.000 to 53.000	50.000 to 53.000
46	3	8.8346 to 9.0079	17.6651 to 18.0000	13.250 to 13.510	26.500 to 27.020	53.000 to 54.000	53.000 to 54.000
47	3	9.0079 to 9.5512	18.0158 to 19.1025	13.510 to 14.325	27.020 to 28.650	54.000 to 57.300	54.000 to 57.300
48	3	9.5512 to 10.0719	19.1025 to 20.0338	14.325 to 15.025	28.650 to 30.050	57.300 to 60.100	57.300 to 60.100
49	3	10.0719 to 10.1346	20.0338 to 20.2691	15.025 to 15.000		60.100 to 60.800	60.100 to 60.800
50	3	10.1346 to 10.6679	20.2691 to 21.3358	15.000 to 16.000		60.800 to 64.000	60.800 to 64.000
51	3	10.6679 to 11.3464	21.3358 to 22.9691	16.000 to 16.800		64.000 to 68.800	64.000 to 68.800
52	3	11.3464 to 11.6679	22.9691 to 23.3358	16.800 to 17.500		68.800 to 70.000	68.800 to 70.000



Test Node	Error Description	Assembly	Frequency Band
8	Unavailable, Source 1, Out 1	A5	0.01 - 13.5 GHz
9	Unavailable, Source 1, Out 2	A5	0.01 - 13.5 GHz
10	Unavailable, Source 1 Synthesizer	A4	Full Range
11	Unavailable, Source 2, Out 1	A10	0.01 - 13.5 GHz
12	Unavailable, Source 2, Out 2	A10	0.01 - 13.5 GHz
13	Unavailable, Source 2 Synthesizer	A31	Full Range
14	Unavailable, LO Drive	A25	Full Range
15	Unavailable, LO Synthesizer	A15	Full Range
16	Unavailable, Source 1 Synthesizer, Integrator Low	A4	Full Range
17	Unavailable, Source 1 Synthesizer, Integrator High	A4	Full Range
18	Unavailable, Source 2 Synthesizer, Integrator Low	A17	Full Range
19	Unavailable, Source 2 Synthesizer, Integrator High	A17	Full Range
20	Unavailable, Source 3, Prelevel	A17	Full Range
21	Unavailable, LO Synthesizer, Integrator Low	A15	Full Range
22	Unavailable, LO Synthesizer, Integrator High	A15	Full Range
23	Unavailable, Double 1, Prelevel	A7	13.5 - 70 GHz
24	Unavailable, Double 2, Prelevel	A8	13.5 - 70 GHz
25	Unavailable, Double 3, Prelevel	A12	13.5 - 70 GHz
26	Unavailable, Double 4, Prelevel	A13	13.5 - 70 GHz
27	Unavailable, Source 1	A5	13.5 - 70 GHz
28	Unavailable, Source 2	A10	13.5 - 70 GHz