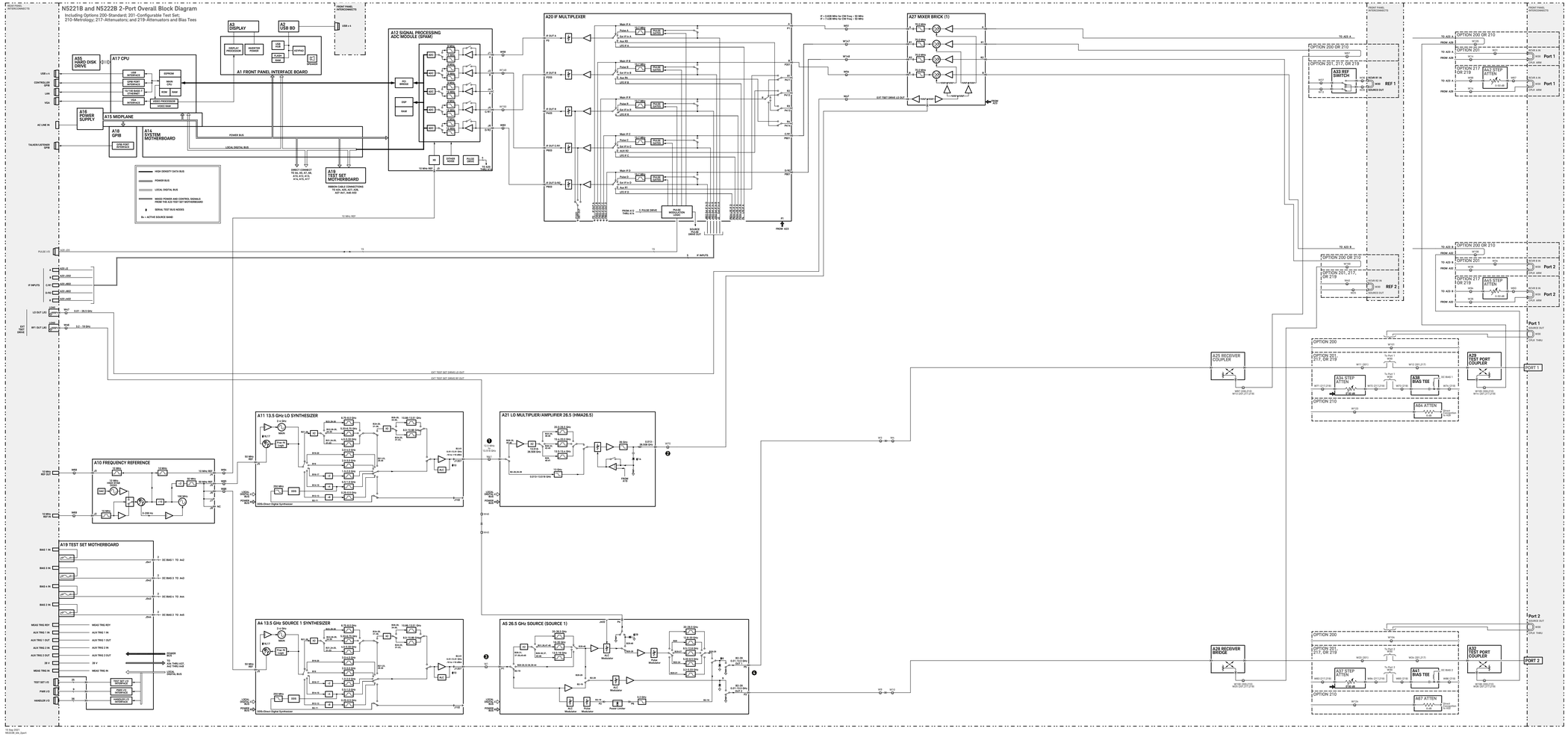
N5221B and N5222B 2-Port Overall Block Diagram

Including Options 200-Standard; 201-Configurable Test Set; 210-Metrology; 217-Attenuators; and 219-Attenuators and Bias Tees



Band	Mixer Brick LO Harmonic Number	❶ LO Synthesizer Frequency (GHz)	❷ A25 HMA26.5 Frequency (GHz)	❸ RF Synthesizer Frequency (GHz)	❹ A5/A10 Source Frequency (GHz)
0	1	...	...	...	...
1	1	...	...	...	...
2	1	0.01083 to 0.05383	0.01083 to 0.05383	0.010 to 0.053	0.010 to 0.053
3	1	0.06044 to 0.18244	0.06044 to 0.18244	0.053 to 0.175	0.053 to 0.175
4	1	0.18244 to 0.25744	0.18244 to 0.25744	0.175 to 0.250	0.175 to 0.250
5	1	0.25744 to 0.50744	0.25744 to 0.50744	0.250 to 0.500	0.250 to 0.500
6	1	0.50744 to 1.0074	0.50744 to 1.0074	0.500 to 1.000	0.500 to 1.000
7	1	1.0074 to 2.0074	1.0074 to 2.0074	1.000 to 2.000	1.000 to 2.000
8	1	2.0074 to 3.0074	2.0074 to 3.0074	2.000 to 3.000	2.000 to 3.000
9	1	3.0074 to 3.2074	3.0074 to 3.2074	3.000 to 3.200	3.000 to 3.200
10	1	3.2074 to 4.0074	3.2074 to 4.0074	3.200 to 4.000	3.200 to 4.000
11	1	4.0074 to 5.3394	4.0074 to 5.3394	4.000 to 5.332	4.000 to 5.332
12	1	5.3394 to 6.7594	5.3394 to 6.7594	5.332 to 6.752	5.332 to 6.752
13	1	6.7594 to 8.0074	6.7594 to 8.0074	6.752 to 8.000	6.752 to 8.000
14	1	8.0074 to 10.6714	8.0074 to 10.6714	8.000 to 10.664	8.000 to 10.664
15	1	10.6714 to 13.5174	10.6714 to 13.5174	10.664 to 13.510	10.664 to 13.510
16	1	6.7587 to 7.7037	13.5174 to 15.4074	6.755 to 7.700	13.510 to 15.400
17	1	7.7037 to 8.0037	15.4074 to 16.0074	7.700 to 8.000	15.400 to 16.000
18	1	8.0037 to 10.0037	16.0074 to 20.0074	8.000 to 10.000	16.000 to 20.000
19	1	10.0037 to 10.6677	20.0074 to 21.3354	10.000 to 10.664	20.000 to 21.328
20	1	10.6677 to 12.0037	21.3354 to 24.0074	10.664 to 12.000	21.328 to 24.000
21	1	12.0037 to 13.2537	24.0074 to 26.5074	12.000 to 13.250	24.000 to 26.500

Test Node	Error Description	Assembly	Frequency Band
8	Unleveled, Source 1, Out 1	A5	Full Range
9	Unleveled, Source 1, Out 2	A5	Full Range
10	Unleveled, Source 1 Synthesizer	A4	Full Range
11	Unleveled, Source 2, Out 1	A8	Full Range
12	Unleveled, Source 2, Out 2	A8	Full Range
13	Unleveled, Source 2 Synthesizer	A13	Full Range
14	Unleveled, LO Drive	A21	Full Range
15	Unleveled, LO Synthesizer	A11	Full Range
16	Unlocked, Source 1 Synthesizer, Integrator Low	A4	Full Range
17	Unlocked, Source 1 Synthesizer, Integrator High	A4	Full Range
19	Unlocked, Source 2 Synthesizer, Integrator Low	A13	Full Range
20	Unlocked, Source 2 Synthesizer, Integrator High	A13	Full Range
22	Unlocked, LO Synthesizer, Integrator Low	A11	Full Range
23	Unlocked, LO Synthesizer, Integrator High	A11	Full Range
29	Unleveled, Source 1, P4	A5	13.5 - 26.5 GHz
30	Unleveled, Source 2, P4	A8	13.5 - 26.5 GHz