

ID Letter (Declare of Antenna Gain)

FCC ID: 2AZDW-AML550 / IC: 27086-AML550

Model: AMM5500, AML550

These models are LTE/WCDMA/GSM module. This device is to be used only for mobile and fixed application. For the correct use of these modules, we declare the maximum antenna gain to meet ERP/EIRP power limit and RF exposure compliance.

Frequency Band	700 MHz	800 MHz	1700 MHz	1900 MHz	2500 MHz
Max. Gain (dBi)	6.6	5.6	5.0	3.5	9.0

Note: Max. Gain is antenna gain included cable loss.

1. Max Gain (dBi) to comply @20cm with MPE

Frequency MHz	Output Power Note 1		Mode	Duty Cycle	Frame AV Output power (W)	MPE Limit (mW/cm ²)	ISED Limit (mW/cm ²)	Max Gain (dBi) to comply @20cm with FCC MPE	Max Gain (dBi) to comply @20cm with ISED MPE
	dBm	W							
699.7	24.00	0.251	LTE 12	100.0%	0.251	0.466	0.230	9.7	6.6
824.2	33.50	2.239	GSM 850	12.5%	0.280	0.549	0.258	9.9	6.7
824.2	31.50	1.413	GSM 850	25.0%	0.353	0.549	0.258	8.9	5.6
824.2	29.50	0.891	GSM 850	37.5%	0.334	0.549	0.258	9.2	5.9
826.4	25.00	0.316	WCDMA 5	100.0%	0.316	0.551	0.258	9.4	6.1
814.7	24.00	0.251	LTE 26	100.0%	0.251	0.543	0.256	10.4	7.1
1712.4	25.00	0.316	WCDMA 4	100.0%	0.316	1.000	0.425	12.0	8.3
1710.7	24.00	0.251	LTE 4	100.0%	0.251	1.000	0.424	13.0	9.3
1850.2	29.50	0.891	GSM 1900	12.5%	0.111	1.000	0.448	16.5	13.1
1850.2	28.00	0.631	GSM 1900	25.0%	0.158	1.000	0.448	15.0	11.5
1850.2	27.50	0.562	GSM 1900	37.5%	0.211	1.000	0.448	13.8	10.3
1852.4	25.00	0.316	WCDMA 2	100.0%	0.316	1.000	0.448	12.0	8.5
1850.7	24.00	0.251	LTE 2	100.0%	0.251	1.000	0.448	13.0	9.5
2502.5	24.00	0.251	LTE 7	100.0%	0.251	1.000	0.550	13.0	10.4

Note 1: Output Power is maximum power and includes tune-up tolerances.

2. Max Gain (dBi) to comply with Rule

Frequency MHz	Output Power ^{Note 1}		Mode	Rule Part Limits (W)			Max Gain (dBi) to comply with Rule
	dBm	W		Rule	Limit (ERP)	Limit (EIRP)	
699.7	24.00	0.251	LTE 12	27	3.00		12.9
824.2	33.50	2.239	GSM 850	22H	7.00		7.1
824.2	31.50	1.413	GSM 850	22H	7.00		9.1
824.2	29.50	0.891	GSM 850	22H	7.00		11.1
826.4	25.00	0.316	WCDMA 5	22H	7.00		15.6
814.7	24.00	0.251	LTE 26	22H	7.00		16.6
1712.4	25.00	0.316	WCDMA 4	27		1.00	5.0
1710.7	24.00	0.251	LTE 4	27		1.00	6.0
1850.2	29.50	0.891	GSM 1900	24E		2.00	3.5
1850.2	28.00	0.631	GSM 1900	24E		2.00	5.0
1850.2	27.50	0.562	GSM 1900	24E		2.00	5.5
1852.4	25.00	0.316	WCDMA 2	24E		2.00	8.0
1850.7	24.00	0.251	LTE 2	24E		2.00	9.0
2502.5	24.00	0.251	LTE 7	27M		2.00	9.0

Note 1: Output Power is maximum power and includes tune-up tolerances

3. Max Gain (dBi) to comply with Rule and MPE

Frequency MHz	Mode	Max Gain (dBi) to comply @20cm with FCC MPE	Max Gain (dBi) to comply @20cm with ISED MPE	Max Gain (dBi) to comply with Rule	Max Gain (dBi) to comply
699.7	LTE 12	9.7	6.6	12.9	6.6
824.2	GSM 850	9.9	6.7	7.1	5.6
824.2	GSM 850	8.9	5.6	9.1	
824.2	GSM 850	9.2	5.9	11.1	
826.4	WCDMA 5	9.4	6.1	15.6	
814.7	LTE 26	10.4	7.1	16.6	
1712.4	WCDMA 4	12.0	8.3	5.0	5.0
1710.7	LTE 4	13.0	9.3	6.0	
1850.2	GSM 1900	16.5	13.1	3.5	3.5
1850.2	GSM 1900	15.0	11.5	5.0	
1850.2	GSM 1900	13.8	10.3	5.5	
1852.4	WCDMA 2	12.0	8.5	8.0	
1850.7	LTE 2	13.0	9.5	9.0	
2502.5	LTE 7	13.0	10.4	9.0	9.0

Signature :



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