

Antenna Data Sheet

Antenna Manufacturer Information:

Antenna(s) are manufactured and designed at Garmin headquarters located at 1200 E. 151st Street, Olathe, KS, 66062, USA. Garmin is an antenna manufacturer that specializes in antenna construction and has been a technology leader in high performance antenna design for over thirty years. State-of-the art equipment is used to design, measure, and analyze new designs that are superior to competitor designs and highly proprietary in nature.

Antenna Description:

This data sheet contains the antenna gain information for antennas of Garmin Models A04946, B04946, and C04046. The approximate operational frequency band of these technologies is given, and the maximum gain within the frequency band is shown in Table 1. The Correlated and Uncorrelated MIMO gains for the two Wi-Fi antennas are also provided in Table 1.

Table 1 Antenna Gain Information:

Antenna	Antenna Type	Frequency Range (MHz)	A04946 Gain (dBi)	B04946 Gain (dBi)	C04946 Gain (dBi)	Highest Gain (dBi)	Model with Highest Gain
ANT	Dipole	2400 - 2480	3.40	5.40	3.90	5.40	B04946
BT	Dipole	2400 - 2480	6.81	2.50	3.40	6.81	A04946
Wi-Fi 0	Dual-Band Dipole	2400 - 2480	6.77	3.11	3.62	6.77	A04946
		5150- 5250	6.65	5.56	2.93	6.65	A04946
		5250 - 5350	5.66	5.83	2.93	5.83	B04946
		5470 - 5725	5.17	6.14	3.92	6.14	B04946
		5725 - 5850	4.80	5.70	3.69	5.70	B04946
Wi-Fi 1	Dual-Band Dipole	2400 - 2480	3.76	5.53	3.24	5.53	B04946
		5150- 5250	2.76	3.15	5.07	5.07	C04946
		5250 - 5350	2.93	3.03	5.07	5.07	C04946
		5470 - 5725	4.12	4.11	4.90	4.90	C04946
		5725 - 5850	4.41	4.11	5.14	5.14	C04946
Highest SISO Wi-Fi	Dual-Band Dipole	2400 - 2480	6.77	3.11	3.62	6.77	A04946
		5150- 5250	6.65	5.56	5.07	6.65	A04946
		5250 - 5350	5.66	5.83	5.07	5.83	B04946
		5470 - 5725	5.17	6.14	4.90	6.14	B04946
		5725 - 5850	4.80	5.70	5.14	5.70	B04946
Correlated Wi-Fi	Dual-Band Dipole	2400 - 2480	11.42	10.42	9.45	11.42	A04946
		5150- 5250	10.94	10.46	10.09	10.94	A04946
		5250 - 5350	10.42	10.56	10.09	10.56	B04946
		5470 - 5725	10.68	11.20	10.44	11.20	B04946
		5725 - 5850	10.63	10.96	10.47	10.96	B04946
Uncorrelated Wi-Fi	Dual-Band Dipole	2400 - 2480	8.53	7.50	6.44	8.53	A04946
		5150- 5250	8.14	7.53	7.14	8.14	A04946
		5250 - 5350	7.52	7.66	7.14	7.66	B04946
		5470 - 5725	7.69	8.25	7.45	8.25	B04946
		5725 - 5850	7.62	7.99	7.49	7.99	B04946

Additional Information:

Contact Garmin for other information regarding antenna design, dimensions, cable length, etc.