

24G Radio

1. Antenna manufacturer: Socionext
2. Antenna type: Patch antenna
3. Antenna gain: 2dBi

2.4. Antenna configuration

Figure 2-3 shows an antenna configuration. This product has two receiver antennas. The center-to-center distance of receiver antennas is 5.76 mm.

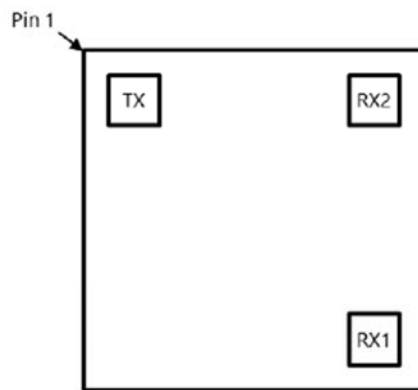


Figure 2-3 Top View Antenna configuration (Not to scale)

Table 3-11 Antenna Section

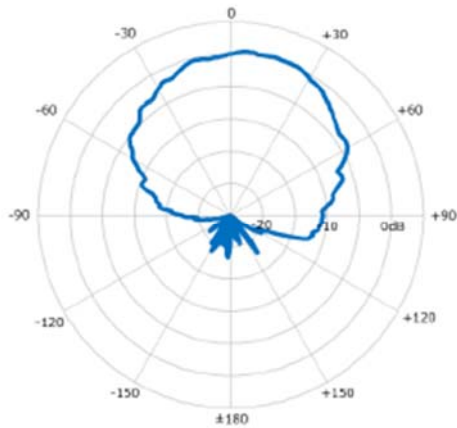
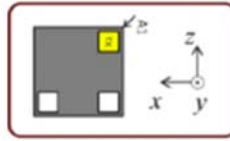
Parameter		Symbol	Conditions	Limits			Unit
				Min	Typ	Max	
E1	RX antenna Gain	Grxa	$f_{RF}=24.15\text{GHz}$		2		dBi
E2	TX antenna Gain	Gtxa	$f_{RF}=24.15\text{GHz}$		2		dBi

Table 3-15 Transmitter Section

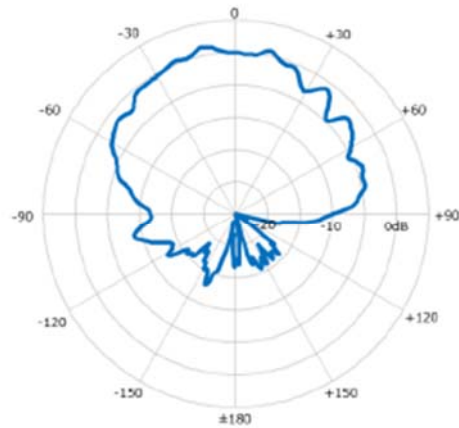
Parameter		Symbol	Conditions	Limit			Unit
				Min	Typ	Max	
E21	RF transmit Frequency range	f_{TX}		24.059		24.24	GHz
E22	RF Transmit Power ^{Note 11)}	PAout	$f_{TX}=24.059\text{GHz}$ to 24.24GHz , $T_{jopr}=25^{\circ}\text{C}$	-1	2	3.7	dBm
E23	Transmit Power Variation ^{Note 11)}	PAvar	$f_{TX}=24.059\text{GHz}$ to 24.24GHz		0.7		dB

Note 11) These limit values are based on the measurement conditions defined by Socionext; a receiving antenna is placed in the zenith direction of the DUT and the distance is 3m. Socionext's conditions may differ from the conditions defined in the radio regulations of each country.

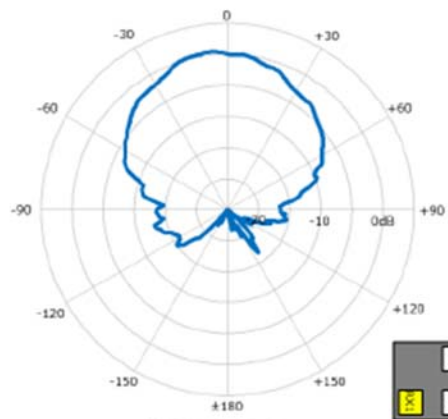
Antenna pattern (Reference)



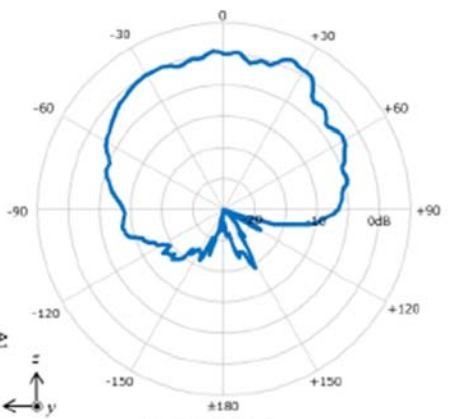
(a) TX/Y-Z plane



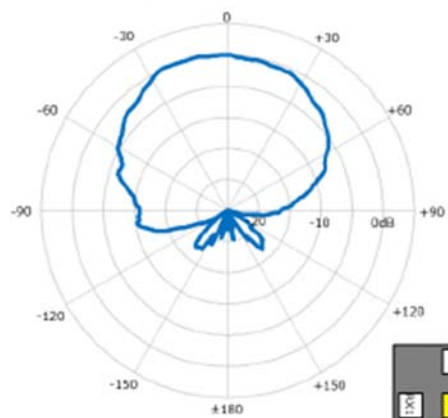
(b) TX/X-Y plane



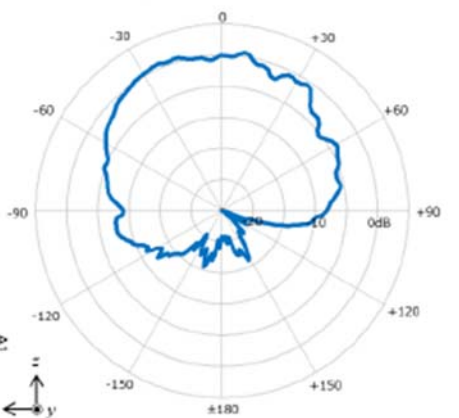
(a) RX1/Y-Z plane



(b) RX1/X-Y plane



(c) RX2/Y-Z plane



(d) RX2/X-Y plane