

Datasheet

SC1233AR3 24GHz radar sensor LSI Ver. 1.4

October 22nd, 2021
Socionext Inc.

This information applies to a product under development. Its characteristics and specifications are subject to change without notice.

1.3. Package

- BGA 64pin
- Size 9mm*9mm*1.18mm
- Pin pitch 0.8mm

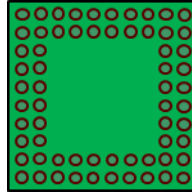


Figure 1-1 Package Overview (Bottom View)

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.

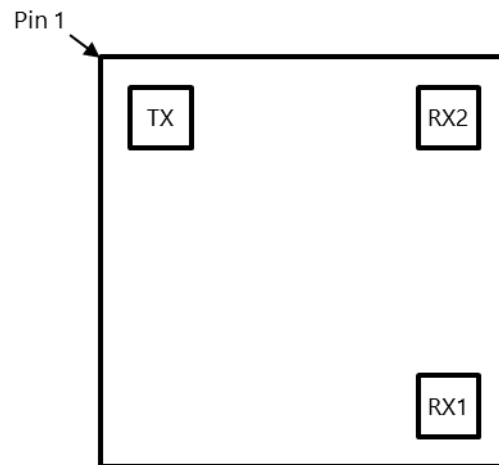


Figure 2-3 Top View Antenna configuration (Not to scale)

Antenna Type: Integrated patch antenna

Freq (GHz)	Gain (dBi)
24	0dB

A. Appendix

Antenna pattern (Reference)

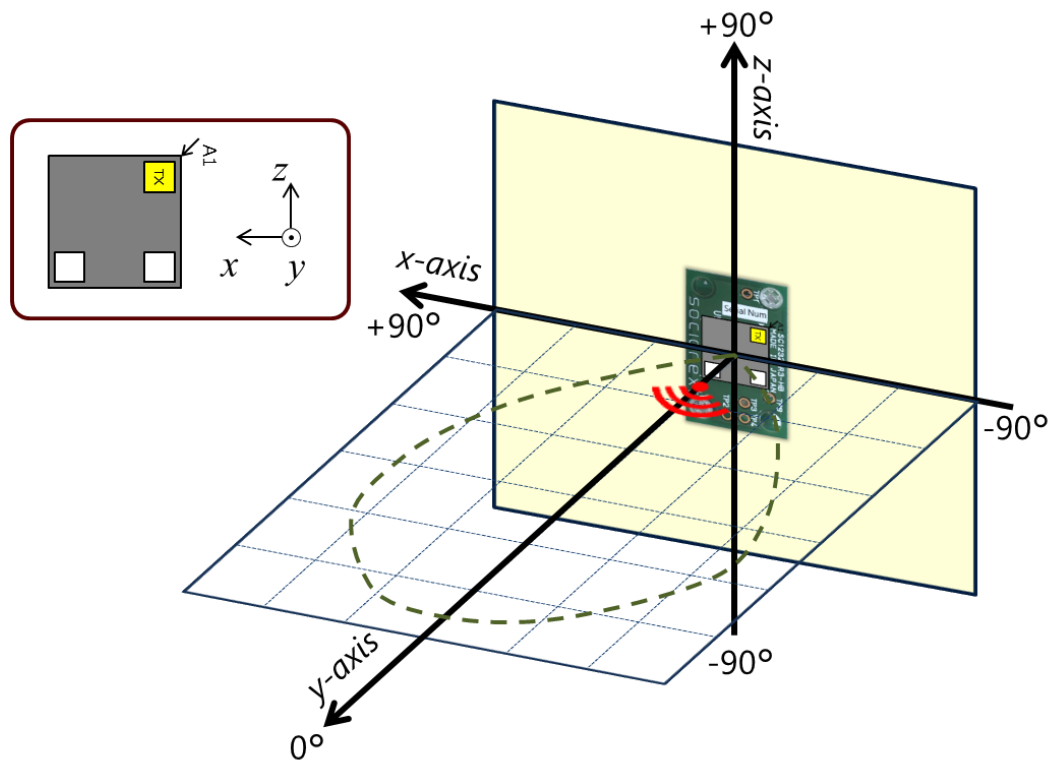


Figure A-1 xyz-axes and angle

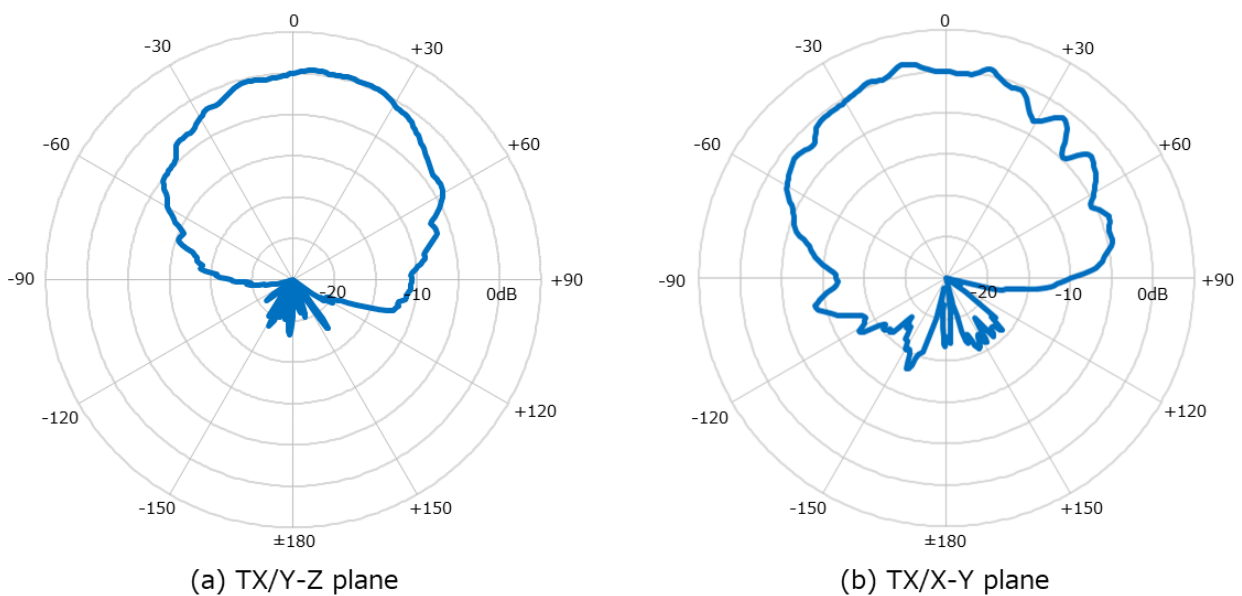


Figure A-2 Measured TX antenna pattern at 24.15GHz (Normalized 0-degree power to 0dB)

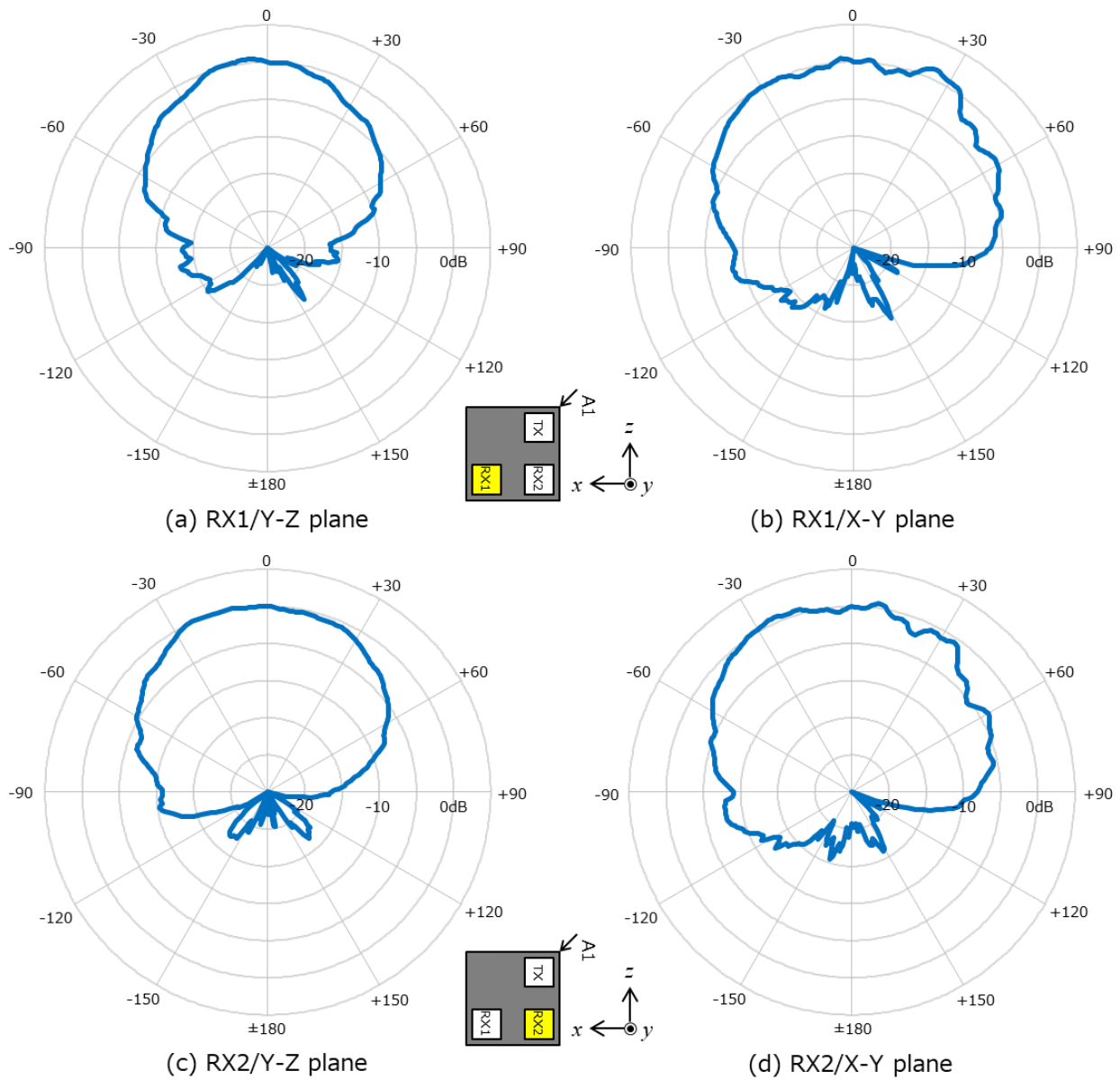


Figure A-3 Measured RX antenna pattern at 24.15GHz (Normalized 0-degree gain to 0dB)