

SC1221AR3-000

Antenna Configuration/Block Diagram/Specifications

Typical Antenna Gain and TX Antenna pattern

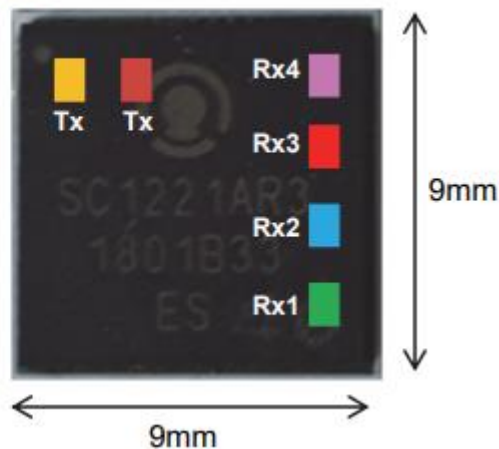
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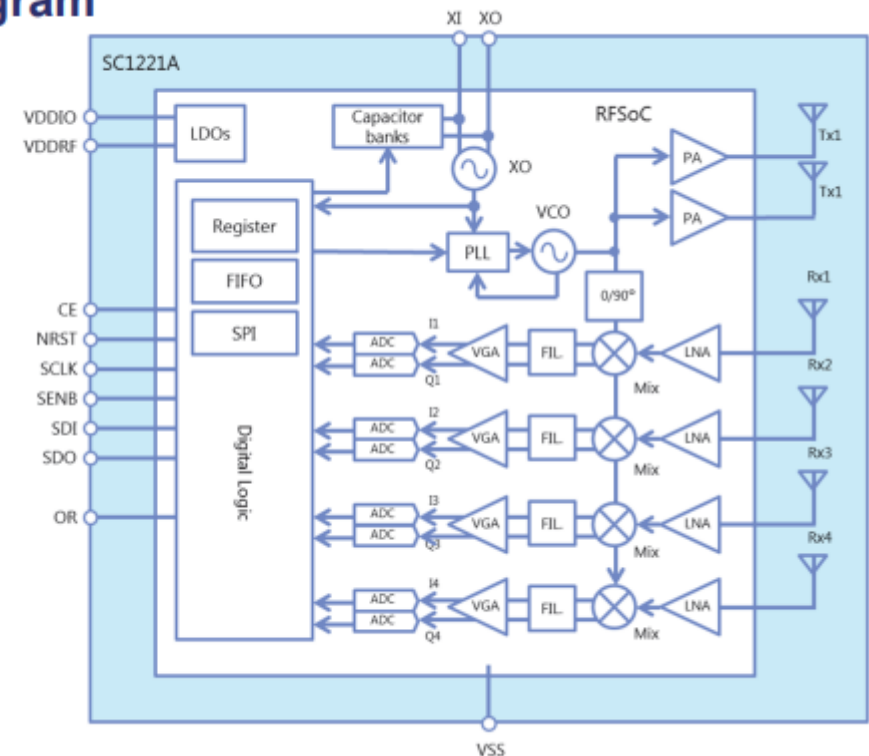


Antenna Configuration/Block Diagram/Specifications

Antenna Configuration



Block Diagram



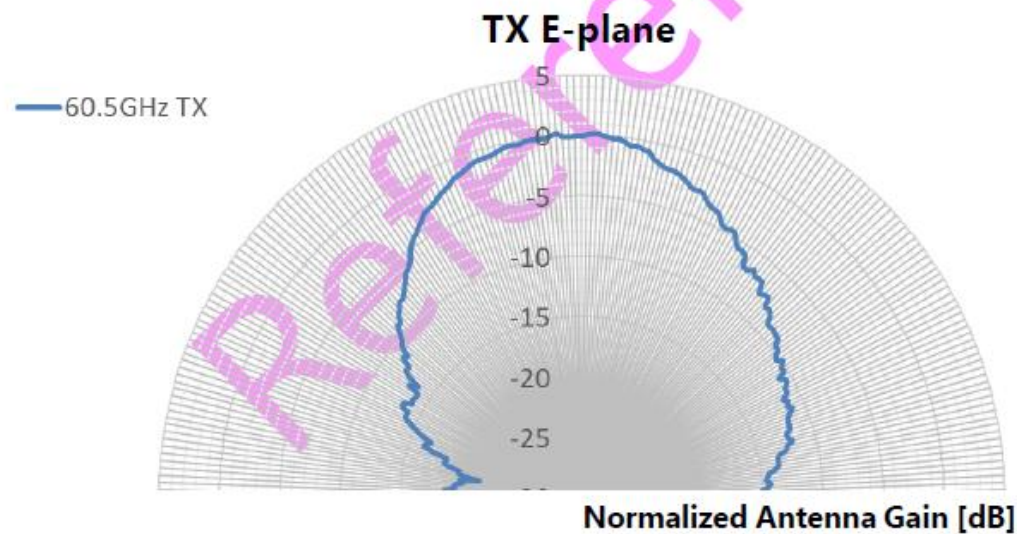
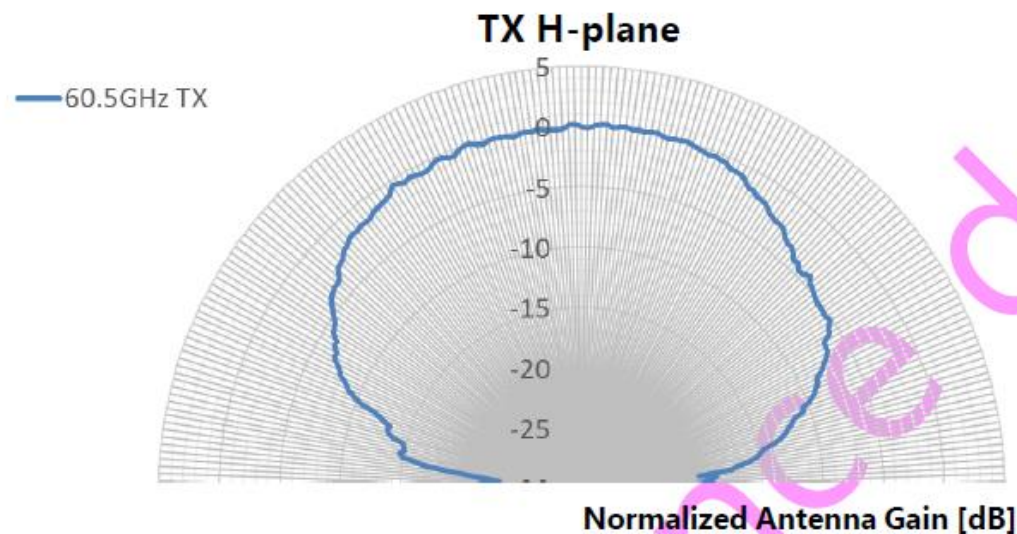
Specifications

Radar mode	FMCW/ FSKCW/ CW
Power Supply	1.5V - 1.8V (core) / 1.8V - 3.3V (I/O)
Power Consumption	368mW (Peak), 1mW (0.2% duty cycle operation using Deep sleep)
Transmitter	Frequency: 57.1 - 63.9GHz, EIRP: +5dBm
Receiver	Noise Figure: 12dB
Digital block	ADC (11bit, 10MHz), FIFO (32KB), SPI I/F (≤50MHz)
Operating temperature	-40 to 85°C

Typical Antenna Gain and Transmit Power of SC1221AR3

Item	57.1GHz	60.5GHz	63.9GHz
RF Transmit power [dBm]	-4	0	-1
Antenna gain [dBi]	4	5	7
EIRP [dBm]	0	5	6

Typical Antenna pattern of SC1221AR3



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