

Antenna Details

Cellular Antenna – Taoglass PCS.55.A

Manufacturer	Taoglass
Model	PCS.55.A
Type	SMD Dielectric Monopole Antenna
Configuration	World Wide (WW) matching configuration
Peak Gain	-1.5 to 3.5 dBi (depending on band used)
FCC Part 15.203	The PCS.55.A complies with FCC Part 15.203 as it is a Surface-Mount Device (SMD) antenna, meaning it is permanently soldered onto the PCB during manufacturing.
FCC Part 15.204	It is not user-removable or replaceable, so it ensures that end users cannot alter the antenna system, maintaining regulatory compliance with FCC Part 15.204, preventing unauthorized modifications that could affect RF performance.

Wi-Fi / BLE Antenna – ESP32-C6-MINI-1

Manufacturer	Espressif
Model	ESP32-C6-MINI-1
Type	On-board PCB antenna integrated as part of the module
Peak Gain	3.96 dBi
FCC Part 15.203	The ESP32-C6-MINI-1 complies with FCC Part 15.203 as it is an integrated antenna in the module, meaning it is permanently attached to it and can't be separated from the MCU.
FCC Part 15.204	It is not user-removable or replaceable, so it ensures that end users cannot alter the antenna system, maintaining regulatory compliance with FCC Part 15.204, preventing unauthorized modifications that could affect RF performance.

24GHz Radar Antenna – BGT24LTR11N16

Manufacturer	Infineon
Model	n/a (following recommended antenna design by manufacturer for BGT24LTR11N16)
Type	PCB antenna
Configuration	Doppler-radar
Peak Gain	10 dBi
FCC Part 15.203	The BGT24LTR11N16 antenna complies with FCC Part 15.203 as it is an integrated antenna in the PCB, meaning it can't be substituted.
FCC Part 15.204	It is not user-removable or replaceable, so it ensures that end users cannot alter the antenna system, maintaining regulatory compliance with FCC Part 15.204, preventing unauthorized modifications that could affect RF performance.