



Specification

ISM Antenna Selection Guide

The first question is do you need an external or internal antenna solution?

External antenna solutions give the highest performance. Internal antennas have slightly reduced performance, but are more economical and with careful integration can deliver.

For external solutions next question is do you have a set environment?

For external outdoor environments our Hercules (Fig.1) screw-mount solutions are best, the robust housing is resistant to impacts, weather and vandalism and delivers the highest performance in low profile housing.



Fig.1 Hercules



Fig.2 Stingray



Fig.3 Terminal Antenna

For in-vehicle applications the Stingray (Fig.2) covert antennas are great for sticking directly to glass or somewhere hidden.

For indoors applications the terminal antennas (example Fig.3) deliver high gain with easy integration.

For internal antennas we need to look at the space available internally in the device and whether or not you want an omni-directional or directional antenna.



Fig.4 FXP200 series



Fig.5 FR4 PCB



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If there is no space restriction the FXP200 (Fig.4) series are perfect, stick the flexible antennas under a plastic housing (metal housings will block all antenna radiation) away from metal and you will have good performance already. If space is severely restricted, the rigid FR4 PCB (Fig.5) antennas can be placed vertical to your main board as a good slot-in option.

Taoglas are leaders in SMD antennas, and now we have a unique high gain, high efficiency SMD ceramic loop antenna and patch antenna line. The loop antenna is tiny but delivers big time on performance. We have tested all our competitors' lines and we can safely state it has 3 TIMES the efficiency and gain over all other alternatives. There is simply nothing else like it.

The unique Taoglas linear patch antennas give highest gain in one direction out of the box. No longer do you need to design a special antenna assembly to get this gain.