



Universal RF Product and Service Provider

EMI shielding

Issue

The GPS module that the customer adopts is performing well in the open sky alone, but when the GPS module is embedded in their wireless scanner, the GPS signal reception is very poor. The customer is also under pressure to deliver the goods.

Analysis

After the evaluation, we find out that the EMI of the device is not taken care well. So, when the GPS module is embedded in the device, the EMI affects the GPS module. It takes long time, but the GPS still could not get fix and the CN value is all around 20.

Action Takes

1. Try to find out the EMI sources and shield them so that the customer doesn't need to re-layout the circuit.
2. The motor and monitor are very close to the GPS module and we assume that they are EMI source.

