

Exhibit R: Antenna Info

FCC ID: QYT-4120

ANTENNA INFO.pdf

The IDmicro manufactured 4120 interrogators and antennas are identical to the units previously manufactured, tested, and approved. IDmicro stocks and distributes two of the approved antennas to installers of the 4120 based systems.

As part of the manufacturing process, IDmicro installs the temperature compensation table and measures the output power. While the power amp may operate close to 1 watt on the circuit board, the subsequent losses through the switches, filter, coax, connector, and minimum length cable drop the power at the antenna down. The units are spec'd at 28dBm output without cable and the subsequent cable loss is dependent upon the cable length and type.

The antennas available for the 4120 are :

1. 8 dB linearly polarized patch antenna from Antennas America (now Arc Wireless) Model # M2.45SPT (T is for TNC connector, other connectors are available)
2. 4dB circularly polarized patch antenna from MaCom. Model # ANP-C-116

The units are to be installed by professional installers and thus power measurements will be made at the installation site. Power measurements will ensure that the power level at the antenna is always less than 28 dBm.

Given the nominal requirement of 30dBm into a 6 dB antenna, the use of 8 dB gain antenna is acceptable with the lower power levels as measured during manufacturing as well as on site. A maximum of 36db EIRP is obtainable, with lower levels expected at the antenna due to cable loss.

Additional information pertaining to the antenna test results can be extracted from previous test reports if desired.