



FCCID: OGD10310308

**Addendum to Test Report for No Wires Needed Wireless LAN Access Point and Bridge unit models: Parrot, Pelican, WBS and WBC 1100.**

Theoretical Processing Gain and Jammer to Signal Ratios 11Mbps DSSS Radio

| Data Rate | Modulation | Symbol Rate (SyR)<br>Sym per second | Spread Rate (SpR)<br>chips per Symbol | Processing Gain<br>$G_p=10\text{LOG}(\text{SpR}/\text{SyR})$ | Es/No+Lsys | Coding Gain | Calculated J/S<br>Incl. Code gain | Allowed J/S for 10dB<br>[10dB-Es/No+Lsys] |
|-----------|------------|-------------------------------------|---------------------------------------|--|------------|-------------|-----------------------------------|---|
| 1Mbps     | BPSK       | 1MSps                               | 11McpS                                | 10.4   | 12.4       | 0.0         | -2.0                              | -2.4                                      |
| 2Mbps     | QPSK       | 1MSps                               | 11McpS                                | 10.4   | 15.4       | 0.0         | -5.0                              | -5.4                                      |
| 5.5Mbps   | CCK4       | 1.375MSps                           | 8McpS                                 | 9.0  | 15.6       | 2.0         | -4.6                              | -5.6                                      |
| 11Mbps    | CCK64      | 1.375MSps                           | 8McpS                                 | 9.0  | 18.8       | 2.0         | -7.8                              | -8.8                                      |

\* Details on CCK modulation performance provided by Harris Semiconductor and Harris HFA3860B Data Sheet.