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**Subject: Calculate Antenna Gain for iLM316X-W Device.**

**Antenna Manufacture:** Mobile Mark Communication Antennas

**Model:** SMW-UMB-3A3J2C (OPTION F)

**Descriptions:** Multi-band Surface Mount Antenna Cellular/DCS/PCS/GPS and 2.4 GHz.

**Gain Specification Without Cable Loss**

Band 1, 800 to 1000 MHz : 2 dBi

Band 2, 1700 to 2400 MHz: 5dBi

Band 3, 2400 to 2500 MHz: 5dBi

**Cable Loss**

Band 1, 800 to 1000 MHz: 2.25 dB

Band 2, 1700 to 2400 MHz: 3.3 dB

Band 3, 2400 to 2500 MHz: 3.3 dB

**Actual Estimated Antenna Gain**

Band 1, 806 to 1000 MHz : -0.25 dBi

Band 2, 1700 to 2400 MHz: 1.7dBi

Band 3, 2400 to 2500 MHz: 1.7dBi