AIR-RM21A Antenna System Technical Specification

1. Omni-directional Specifications

The omni-directional antennas are deployed when the antenna housing is oriented vertically with respect to the AP1200 housing as shown in Figure 1. These omni-directional antennas have a peak gain of 5 dBi (nominal) and an E-Plane beamwidth of about 40 degrees.



Figure 1. AP1200 with Kodiak Antennas in Omni-directional Mode

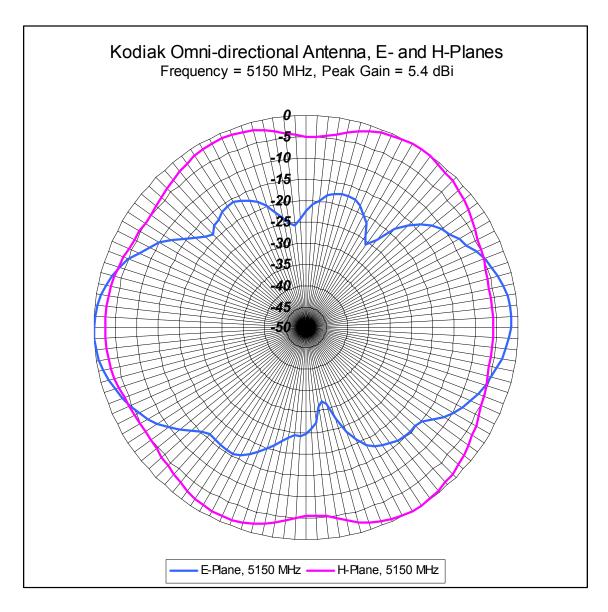


Figure 2. Kodiak Omni-directional Patterns, f = 5150 MHz

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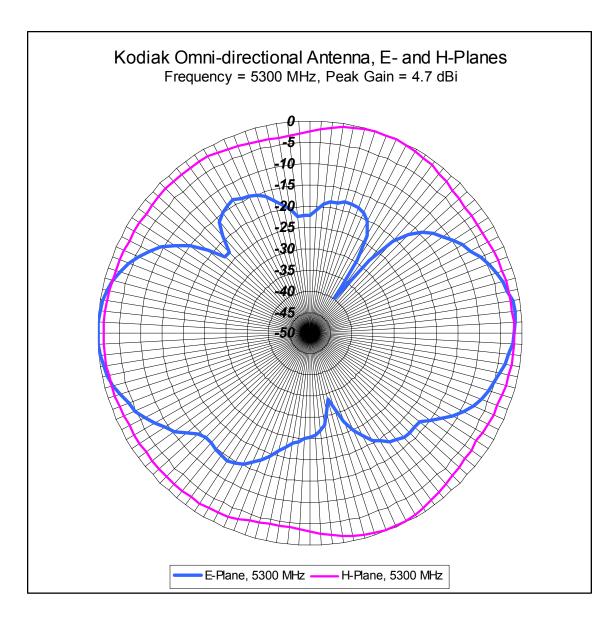


Figure 3. Kodiak Omni-directional Patterns, f = 5300 MHz

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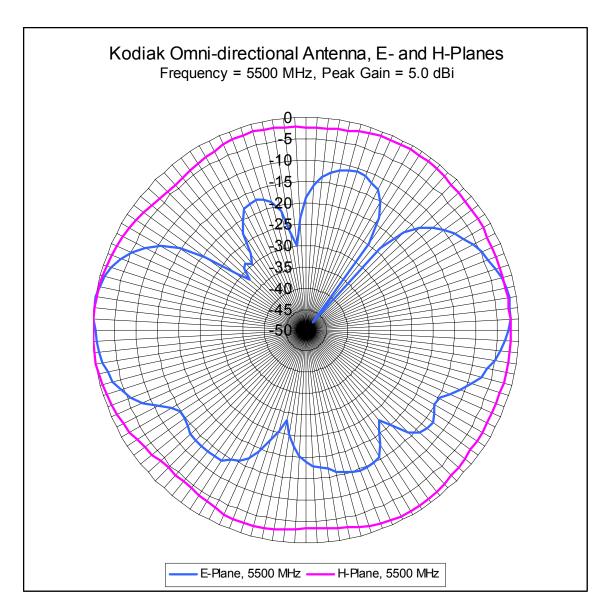


Figure 4. Kodiak Omni-directional Patterns, f = 5500 MHz

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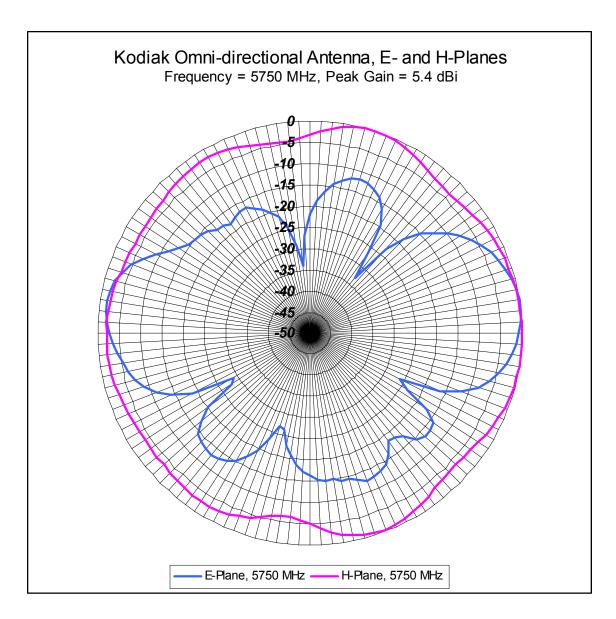


Figure 5.
Kodiak Omni-directional Patterns, f = 5750 MHz

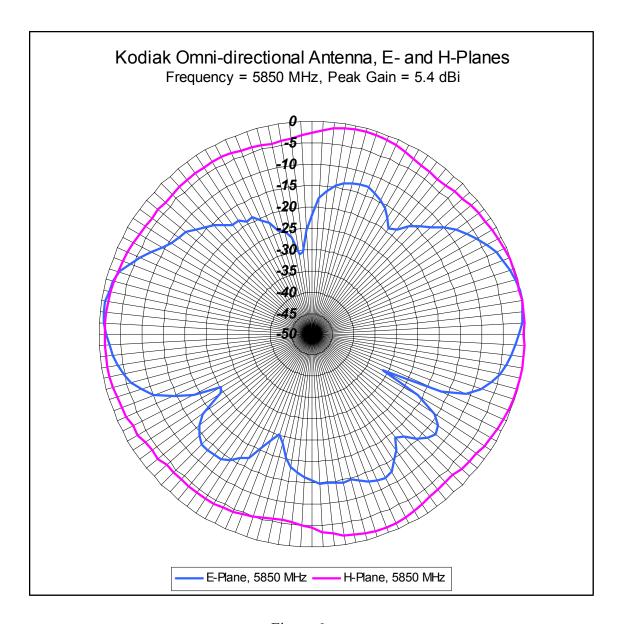


Figure 6. Kodiak Omni-directional Patterns, f = 5850 MHz

3. Directional Antenna Specification.

A directional pattern is achieved by using the die-cast aluminum AP1200 housing as a reflector for the omni-directional antennas. The antenna housing is laid flat against the housing as shown in Figure 7 below. This produces a high H-plane beamwidth of about 100-degrees with a high peak gain of above 9 dBi with a gain at boresight of about 7 dBi.



Figure 7. AP1200 with Kodiak Antennas in Directional Mode

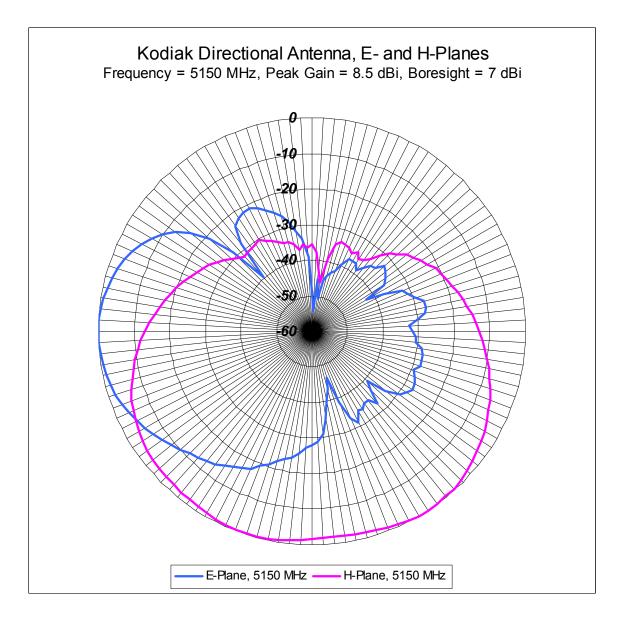


Figure 8. Kodiak Directional Antenna Patterns, 5150 MHz

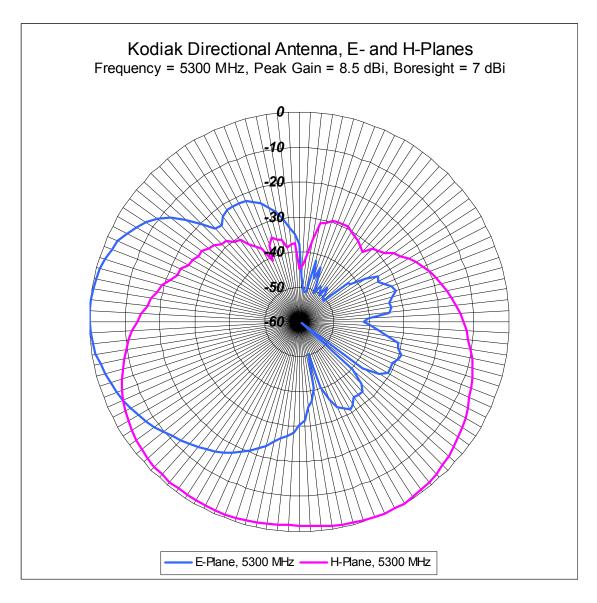


Figure 9. Kodiak Directional Antenna Patterns, 5300 MHz

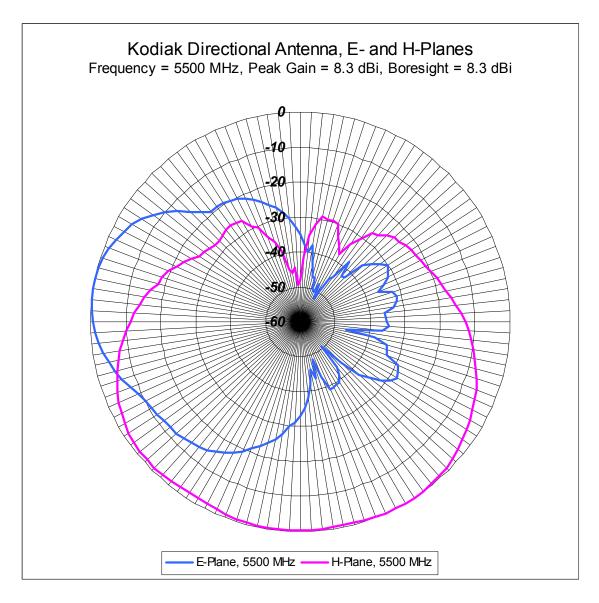


Figure 10. Kodiak Directional Antenna, 5500 MHz

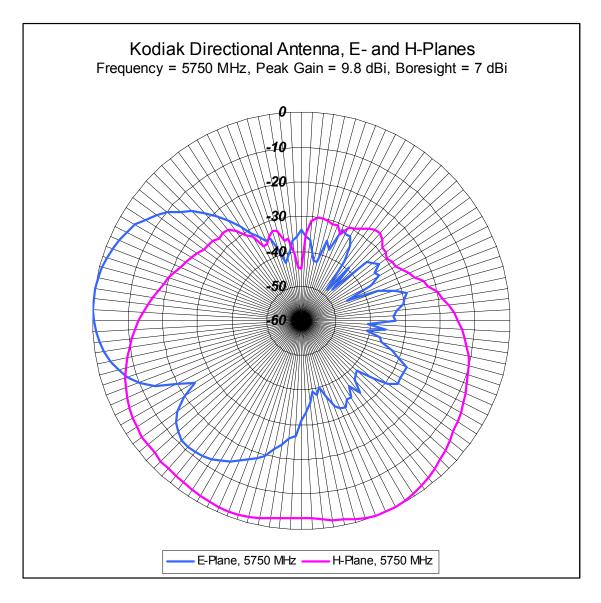


Figure 11. Kodiak Directional Antenna Patterns, 5750 MHz

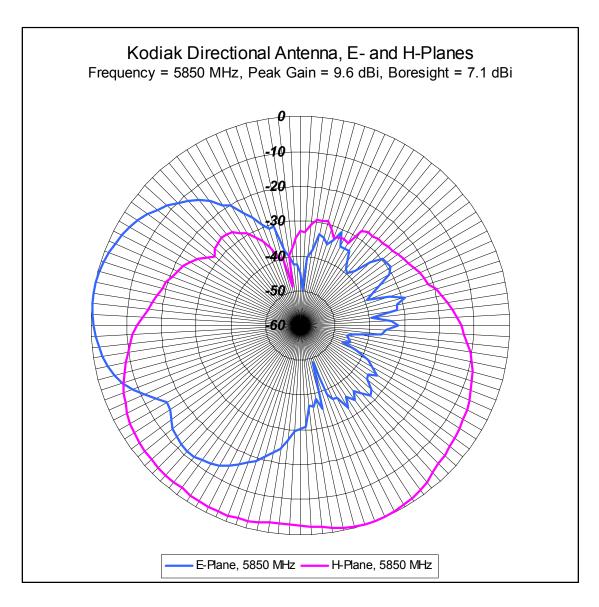


Figure 12. Kodiak Directional Antenna Patterns, 5850 MHz