

Attachment: Radar Antenna

Equipment:	ping905X from uAvionix Corporation
Center Frequency	9050 MHz No tuning required since only a single frequency being requested
Pulse Characteristics:	Simple repetitive pulse train Pulse duration = 1 μ sec PPS = 50 Rise Time = 0.1 μ sec Duty Cycle = 0.005%
Emission Designator:	1M00P1N
Antenna Characteristics:	Directional Patch Antenna Orientation is steerable; no established bias in elevation and azimuth Gain = 20 dBi 3 dB Horizontal Beam Width = 45 degrees 3 dB Vertical Beam Width = 30 degrees Maximum Height Above Ground = 20 ft or 6 m
Antenna scanning scheme:	Antenna initially aimed in the likely direction of target UAV and then scanned in elevation and azimuth once target is located. The antenna tracks the UAV in a manner that keeps the UAV centered on the point of maximum antenna gain.