

Extended Coverage and Improved Performance in Horizontally Deployed Networks

Eigen extends range by 4X while improving throughput of horizontally polarized wireless networks supporting Military, Law Enforcement, Transportation, Mining, Oil exploration and extraction.

2.4GHz Horizontal Polarization Stealth Mobile/Fixed Omni Antenna

The **Interceptor** horizontally polarized mobile antenna provides a system range extension of 4X or more over a vertically polarized ISM band roof mount mobile antenna in horizontally polarized system environments. Similar performance improvements are realized over the integrated antenna found in rugged computers when mounted in a vehicle docking station. Eigen's industry leading, patented* technology provides rugged military performance while maintaining an unobtrusive conventional appearance required in many law enforcement applications.



Snags are eliminated with an over molded coil. The knurled base enables a secure grip during installation.

Antennas operating above 1700 MHz require a better match than the traditional NMO mount can provide. To meet this requirement, Eigen employs an improved

standard NMO mount, the NMOHF (NMO High Frequency).



The Interceptor optionally includes the HC3505 permanent mount with 17 feet of RG58UD coax



or the HC3501 magnetic mount with 12 feet of low loss LMR-200 coax.



Specifications subject to change without notice. Proxim, Strix Systems are registered trademarks of their respective companies.

* US Patents: 7948440, 8570239



Applications: The Interceptor was designed for harsh outdoor environments encountered in military, public safety and natural resource extraction environments. The antenna supports a variety of mounting techniques on heavy equipment and vehicles, since no ground plane is required. A variety of accessories are available for roof, railing, trunk and fender mounting. When applied as a fixed omni antenna on mesh nodes (from Cisco, Tropos, Motorola, Proxim and Strix), a consistent system wide horizontal polarization can be achieved on all infrastructure and client devices.

Specifications:

Electrical	
Frequency Band	2.4 to 2.475 GHz
Antenna Gain: Ground Plane	2 dBi at 3° elevation above gnd plane
Antenna Gain: No Ground	2 dBi max at horizon
VSWR	<1.7:1
Nominal Impedance	50 Ohms
Maximum Tx Power	2 Watts
Mechanical	
Antenna Height	18 inches
Temperature Range	-40° to 149°F Operating
Wind Survival	145 MPH

Ordering Information:

HM2402-000 Interceptor Antenna

HM2402-01X Antenna w/ HC3505 permanent mount and 17' RG58UD cable

HM2402-02X Antenna w/ HC3501 Magnetic mount and 12' of low loss LMR-200 cable

Cable Terminations:

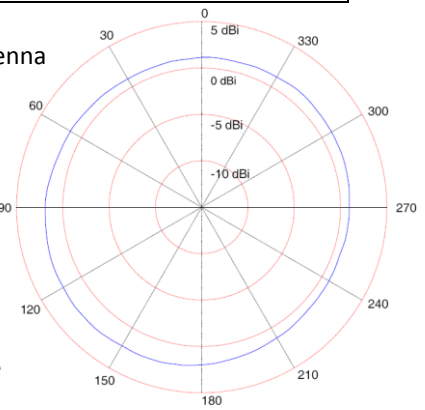
HM2402-0X0 Unterminated

HM2402-0X1 RPSMA RA Male

HM2402-0X2 Type-N Male

HM2402-0X3 RPTNC RA Male

HM2402-0X4 RPSMA Male



Horizontal Plane E field Response