

CLEAR-WAV™ ADVANTAGE
 X-WAV™
 SHOCK-WAV™
 PRO-WAV™



PRODUCT OVERVIEW

The X-WAV™ 4.4 – 4.6 GHz Flat Panel antennas are designed specifically for use in secure Military band applications. Utilizing the Clear-WAV™ technology for delivering superior performance characteristics, the Flat Panel series combines high performance with a sleek, low profile design. It is a highly reliable and cost-effective alternative to traditional linear antenna technologies. The X-WAV Flat Panel series provides an ideal solution for sector coverage as well as medium and long range Point-to-Point and Point-to-Multipoint links. X-WAV antennas offer the performance benefits of Circular Polarization technology, including superior signal propagation and penetration, with less susceptibility to outside interference and multipath signals. X-WAV antennas can be used directly with Military band radio devices or in conjunction with the Frequency Translating Amplifier (FTA) which translates public band signals into protected 4.4 – 4.6 GHz Military bands.

Results may vary depending on building layout, type of construction and other environmental factors including Wi-Fi traffic, Microwaves Ovens, Cordless Phones etc.



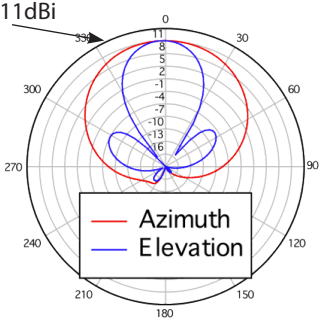
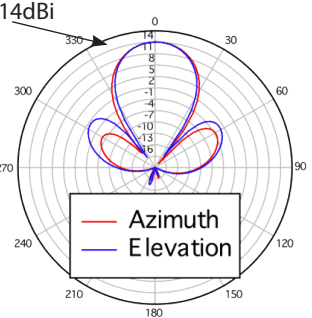
FCC NOTICE: The use of all radio equipment is subject to regulations in each country. To comply with FCC part 15 rules in the United States, radio equipment must only be used in systems that have been FCC certified. It is the responsibility of the user/professional installer/operator to ensure that only approved equipment/systems are deployed. To ensure FCC part 15 compliance, Luxul amplifier products should only be installed in certified systems by licensed professionals.

FCC Certification Support for OEMs: offers FCC certification assistance and engineering support for qualified OEMs interested in certifying complete amplified WLAN systems. Please contact us for details.

4.4 - 4.6GHz FLAT PANEL AND SECTOR ANTENNAS

The X-WAV™ Antenna family implements Clear-WAV™ Circular Polarization technology for increased signal penetration, less interference and extended wireless coverage. X-WAV antennas are widely implemented and recommended for use in mobile and Non-Line-of-Site (NLOS) applications. The Circular Polarization of the X-WAV signal pattern allows for superior penetration of obstacles such as trees, walls, and buildings. Other benefits include less susceptibility to multipath interference or noisy signals and enhanced interoperability with conventional systems.

4.4-4.6 GHZ FLAT PANEL SERIES SPECIFICATIONS

		
Part Number	XW-4XO-FPS11 and XW-4XI-FPS11	XW-4XO-FP14 and XW-4XI-FP14
Type	Flat Panel Sector	Flat Panel
Frequency Range	4400 - 4600 MHz	4400 - 4600 MHz
Gain	11 dBi	14 dBi
Polarization	Clear-WAV Right Hand Circular	Clear-WAV Right Hand Circular
Connector	N Female	N Female
Azimuth Beam Width	77 degrees	35 degrees
Elevation Beam Width	35 degrees	33 degrees
VSWR	< 1.5:1	< 1.5:1
F/B Ratio	26dB	29dB
Impedence	50 Ohm	50 Ohm
Dimensions	W: 4.25" (107.95mm) L: 7.25" (184.15mm) H: 1.6" (40.64mm)	W: 8" (203.2mm) L: 8" (203.2mm) H: 1.6" (40.64mm)
Weight	6.5 oz (184.3g)	10 oz (283.5g)
Mounting	2 x 1/4x20 1/2" studs	2 x 1/4x20 1/2" studs
Radiation Pattern	11dBi 	14dBi 
Application	For sector coverage and medium range point-to-point or point-to-multipoint links. Ideal for use with the Frequency Translating Amplifier (FTA)	

PRODUCT SHIPS WITH:

XW-4XO-FPS11 and XW-4XO-FP14 Outdoor

XW-4XI-FPS11 and XW-4XI-FP14 Indoor

- Antenna
- HDW-AM-UOD outdoor mounting bracket
- Quick Install Guide

- Antenna
- HDW-AM-ID indoor wall mount
- Quick Install Guide