



ENDURANCE SERIES

X-BAND



Solid State X-Band

Affordable 500W dual-polarity X-Band

Ideal for short and medium range applications

Compact design for permanent or portable installation

PROTECTING PEOPLE AND ASSETS[®]

eecweathertech.com

SYSTEM		ENDURANCE X5*	
Operating Frequency	9200-9600 MHz		
Pulse Width	0.4-100.0 usec		
Pulse Repetition Frequency	100-2500 PRF		
Transmitter Output Power	500 Watts		
Maximum Velocity (unambiguous)	64 m/s		
Sensitivity-reflectivity	12dBz at 120 km		
Data Output	UZ (h/v), Z (h/v), V, SW, Zdr, Phv, Φ_{dp} , KDP, LDR		
Max Operating Temperature	-50° C (-58° F) - 60° C (140° F)		

ANTENNA/PEDESTAL		1m* / 1.8m* / 2.44m*	
Type	Parabolic, Prime Focus Reflector	Parabolic, Prime Focus Reflector	Parabolic, Prime Focus Reflector
Half Power Beam Width (typical)	≤ 2.3°	≤ 1.3°	≤ 0.95°
Polarization	Dual Polarization Orthogonal Feed (Simultaneous H + V)		
Transportability	supports land, sea, and air deployment environments		
Mounting Configurations	tower, vehicle, skid, trailer or conventional fixed installation		
Angle Span (azimuth)	Continuous 360°		
Angle Span (elevation)	-5° to +95°		
Positioning Accuracy	≤ 0.05°		
Scanning Speed	0 to 8 rpm		

TRANSMITTER	
Type	Solid State
Peak Power (per channel/total)	500 Watts/1000 Watts 2 Transmitters (H/V)

RECEIVER	
Type	Frequency Programmable
Minimum Discernible Signal	-114 dBm typical
Linear Dynamic Range	≥ 95 dB

DIGITAL RECEIVER/SIGNAL PROCESSOR	
Type	16-bit Modular, multi-channel Digital Receiver, Signal Processor
Minimum Processing Resolution	as low as 16 meters
Clutter Filters	Time Domain or Spectrum-Based Time Estimation and Processing (STEP) - An advanced adaptive clutter identification and mitigation and noise reduction algorithm

METEOROLOGICAL USER SOFTWARE	
METEOROLOGICAL USER SOFTWARE	Comprehensive Software Package
Computer System	Commercial off-the-Shelf PC
Meteorological Products	Over 60 meteorological application products

* All Endurance X5 systems require a radome. A 1.8 m/6 ft radome is used with a 1.0m antenna. Systems with a 1.8 m antenna require a 3.66 m (12 ft) radome. Systems with a 2.44 m antenna require a 4.0 m (13.2 ft) radome.