



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	9400-9700 MHz
Pulse Width	2.0 μ sec & 100.0 μ sec
Pulse Repetition Frequency	100-2500 PRF
Transmitter Output Power	500 Watts
Maximum Velocity (unambiguous)	64 m/s
Sensitivity-reflectivity	12 dBz 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)	$\leq 2.3^\circ$	$\leq 1.3^\circ$	$\leq 0.95^\circ$
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	$\leq 0.05^\circ$		
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. Systems with a 1.0 meter antenna require an 1.8 meter radome, a 1.8 meter antenna requires a 3.66 meter radome, and a 2.44 meter antenna requires a 4.0 meter radome.