



EEC

ENDURANCE SERIES

C-BAND



Solid State C-Band

Single and dual-polarity configurations • 350kW equivalent transmitter power (ETP)

PROTECTING PEOPLE AND ASSETS®

eecweathertech.com

SYSTEM		ENDURANCE C	
Operating Frequency		5200 - 5900 MHz	
Pulse Width		0.2us - 100us	
Range Resolution		Minimum 16m	
Pulse Repetition Frequency		200-2400 Hz, user selectable	
Range		Minimum 600km	
Maximum Velocity (unambiguous)		up to 128 m/s	
Sensitivity-reflectivity		- 18 dBz at 30 km	
Clutter Suppression Capability		≥ 46 dB	
Data Output		UZ, Z, V, SW (dual-polarization moments Zdr, Phv, Φdp, KDP, LDR)	

ANTENNA/PEDESTAL			
Type		Parabolic, Prime Focus Reflector	
Reflector Diameter		4.2m (typical) - other sizes available	
Gain-Minimum		> 45.0 dB	
Half Power Beam Width (typical)		0.95°	
Polarization		Single Polarization - Linear Horizontal Dual-Polarization - Linear Horizontal/Vertical	
Angular Positioning Accuracy		≤ 0.05°	
Scanning Speed		Up to 10 rpm	

TRANSMITTER			
Type		Solid State	
Peak Power		10 kW	
Equivalent Transmitter Power (ETP)		350 kW	

RECEIVER			
Type		Superheterodyne, Single or Dual Down Conversion with Image Reject Mixing	
Minimum Discernible Signal		- 114 dBm typical	
Linear Dynamic Range		Up to 105 dB	

DIGITAL RECEIVER/ SIGNAL PROCESSOR			
Type		16-bit Modular, multi-channel Digital Receiver, Signal Processor	
Maximum No. of Processed Range Bins		up to 8192	
Minimum Processing Resolution		15m	
Clutter Filters		Time Domain or Spectrum-Based Time Estimation and Processing (STEP) - An advanced adaptive clutter identification, mitigation and noise reduction algorithm	

METEOROLOGICAL USER SOFTWARE			
Meteorological User Software		PULSE	
Computer System		Commercial off-the-Shelf PC	
Meteorological Products		See PULSE Data Sheet for additional details.	