



ENDURANCE SERIES

C-BAND



Solid State C-Band

Dual polarization configuration • 350kW equivalent transmitter power (ETP)

PROTECTING PEOPLE AND ASSETS®

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SYSTEM

ENDURANCE C

Operating Frequency	5200 - 5900 MHz
Pulse Width	0.2 μ sec & 100.0 μ sec Short Pulse (Maintenance) & Long Pulse (Operational)
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	\geq 50 dB
Data Output	UZ, Z, V, SW (dual-polarization moments Zdr, Phv, Φ_{dp} , 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 $^{\circ}$
Polarization	Dual-Polarization - Linear Horizontal/Vertical
Angular Positioning Accuracy	\leq 0.05 $^{\circ}$
Scanning Speed	Up to 10 rpm

TRANSMITTER

Type	Solid State
Peak Power	11 kW
Equivalent Transmitter Power (ETP)	> 350kW

RECEIVER

Type	Superheterodyne, Single or Dual Down Conversion with Image Reject Mixing
Minimum Discernible Signal	- 114 dBm typical

DIGITAL RECEIVER / SIGNAL PROCESSOR

Type	16-bit Modular, multi-channel Digital Receiver, Signal Processor
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	Comprehensive Software Package
Computer System	Commercial off-the-Shelf PC
Meteorological Products	Over 60 meteorological application products