ENDURANCE SERIES C-BAND



Solid State C-Band
Dual polarization configuration ● 350kW equivalent transmitter power (ETP)

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SYSTEM	ENDURANCE C85
Operating Frequency	5600 - 5700 MHz
Pulse Width	2.0 µsec & 100.0 µsec 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	≥ 50 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)	0.95º
Polarization	Dual-Polarization - Linear Horizontal/Vertical
Angular Positioning Accuracy	≤ 0.05º
Scanning Speed	Up to 10 rpm

TRANSMITTER	
Type	Solid State
Peak Power	8.5 kW minimum
Equivalent Transmitter Power (ETP)	350kW equivalent transmitter power (ETP)

RECEIVER	
Type	Single 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

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