



EEC

ENDURANCE SERIES

C-BAND



Solid State C-Band

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

PROTECTING PEOPLE AND ASSETS[®]

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| 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 | as low as 16m |
| 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. |