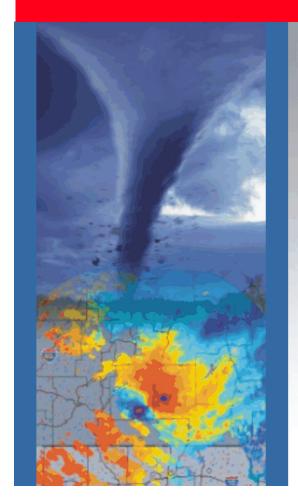
## DWSR-2501C DOPPLER WEATHER SURVEILLANCE RADAR







#### **Digital Weather Processing Innovation**

The Enterprise Electronics Corporation (EEC) DWSR-2501C, the class leader in C-Band Doppler weather radar, is a state-of-the-art design that includes a solid-state modulator, digital receiver and signal processor, high precision antenna/pedestal drive train, and a choice of full-featured control and display systems.

The DWSR-2501C Doppler radar system has the precision to go beyond just the measurement of rainfall intensity. It also predicts the likelihood of hazardous activity, detects the conditions for hail, forecasts floods, and analyzes the behavior of winds inside a storm for early detection and tracking of tornadoes and severe weather events.

The standard features of the DWSR-2501C offer improved performance and reliability over other weather radar systems. More stable operation contributes to overall system precision and accuracy, and increased reliability saves both maintenance time and the cost of replacement parts.

EEC is an ISO 9001:2000 company.





# EEC DWSR-2501C Technical Specifications

## **Features**

- Long Range Detection
- 250 KW Transmitter
- Long-Life Magnetron
- Solid-State Modulator
- Digital Receiver
- >98% System Availability
- Precision Pulse-Pair Video Processor with >40 dB Clutter Rejection
- Precise, Reliable, Low Maintenance Antenna Subsystems in Various Sizes
- Custom Radomes, Towers, and Shelters Designed for Weather Radar

## **DWSR-2501C System Level Characteristics**

Transmitter Frequency and Power	C-Band, 250 KW
Clutter Suppression	40 dB Minimum
Maximum Range	up to 550 KM
Maximum Unambiguous Velocity @ 5600 MHz	48 m/s

## Antenna Subsystem

Reflector Type	Solid-Surface Parabol	ic
Standard Diameter	Beamwidth Gain	
14'	1.00° 45 dB	
Polarization Linea	ar Horizontal / Optional Dual Polarizatio	n
AZ Rotation	360° Continuou	JS
AZ / EL Accuracy and Resolution		۱°
EL Movement Range	2° to + 90	)°
Safety Devices	Safe switches and door interlock	ΚS

## Transmitter Subsystem

Magnetron Type	Tunable Coaxial Long-Life Vacuum Tube
Modulator Type	Solid-State
Pulse Duration	0.4, 0.8, and 2.0 µsec

# **Digital Receiver**

Intermediate Frequency	3 MHz
IF A/D Converter (14 bit)	erence
Dynamic Range	00 dB
Sensitivity @2.0 µsec greater or equal than 11	4 dBm

ENTERPRISE ELECTRONICS CORPORATION 128 South Industrial Blvd. Enterprise, AL 36330

334.347.3478 Fax 334.393.4556 sales@eecradar.com www.eecradar.com INTERNATIONAL SALES 5801 Lee Highway Arlington, VA 22207

703.533.7291 Fax 703.533.3190 info@eecradarintl.com

