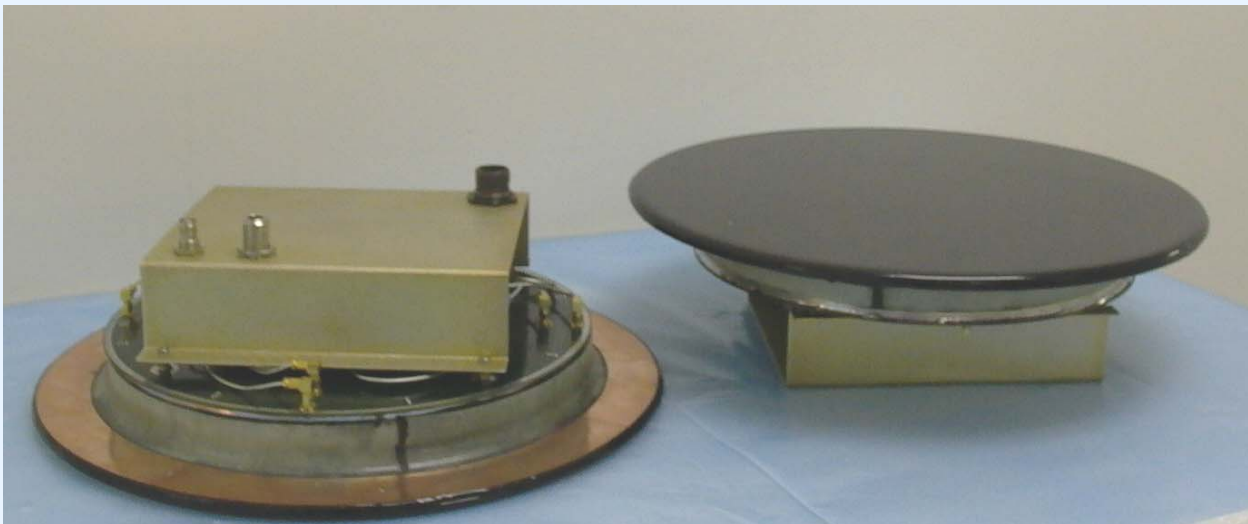


# TechComm

Direction Finder  
Systems

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TC-8111-2  
20-2000 MHz  
Conformal DF Antenna Array  
For  
Airborne or Ground Mobile Applications

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The Tech Comm, Inc. TC-8111-2 Multi-Bay Direction Finder Antenna is intended for use with Tech Comm, Inc. Direction Finder Processors. The TC-8111-2 is designed to operate over the frequency range of 20-2000 MHz. The TC-8111-2 Direction Finder Antenna is a low power, low profile disc antenna. The antenna uses a patented non-disruptive phase/amplitude processing technique to provide line of bearing information from the Direction Finder Antenna to the radio transmission source.

## General Specifications

Antenna Model	TC-8111-2
Frequency	20 – 2,000 MHz Band 1 Operates 20-400 MHz Band 2 Operates 400-2000 MHz
Polarization	Vertical
Horizontal Coverage	360 degrees
Sense Antenna	None Required
Accuracy	5 degrees RMS, typical
Impedance	50 Ohms, nominal
Pre-Amplifier	Switchable In / Out
RF Outputs	DF, OMNI
Electronics	2 Goniometers Hi / Low Band
Goniometer Control	Automatic, supplied by DF Processor
Power	+12 VDC, supplied by DF Processor
Diameter	Element : 11.25 inches (Overall 14 inches)
Height	
Element	1.50 inches
Electronics	2.00 inches
Overall	3.50 inches
Weight	9 pounds, Nominal
Environmental	
Operating Temperature	-20 to +60° C
Non-Operating Temperature	-50 to +70° C
Relative Humidity	0 to 95%