

Features

- Eight simultaneously formed phase centers
- Integrated guard channel for sidelobe blanking
- Wide field-of-regard with exceptional roll-off
- Fully configurable transmit and receive tapers
- Integrated loopback paths for monopulse correction and downstream calibration
- Integrated RF built-in test (BIT) network for in situ element characterization and correction
- Ruggedized electrical and mechanical interfaces

Applications

- Collision avoidance
- Weather detection
- Synthetic Aperture Radar (SAR)
- Ground Moving Target Indicator (GMTI)

Performance Summary

Size	15.2" × 6.5" × 6"
Weight	<15 lbs
Power	<500 W
Frequency	8.0 - 11.0 GHz
Directivity	>25.3 dBi
Polarization	Vertical
Noise Figure	< 5 dB
Cooling	Forced Air



Figure 1. FRF-280 Multi-Mode AESA

General Description

Designed to support multi-function radar operations at X-band, the FRF-280 utilizes the latest in GaN and SiGe semiconductor technology. Built using a modular architecture, different form factors and receive path configurations are available upon request.

While optimized for pulse-doppler operations, the FRF-280 can be used for high duty-cycle and continuous-wave applications. Please contact inquiries@firstrf.com for more details.