



CREATIVE DIGITAL SYSTEMS INTEGRATION

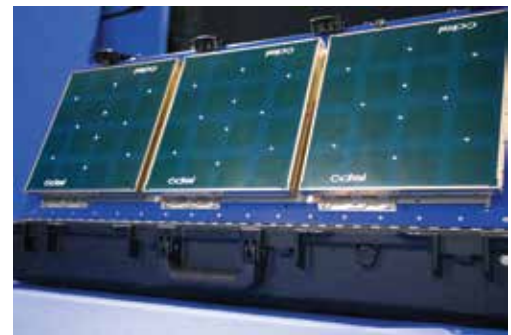
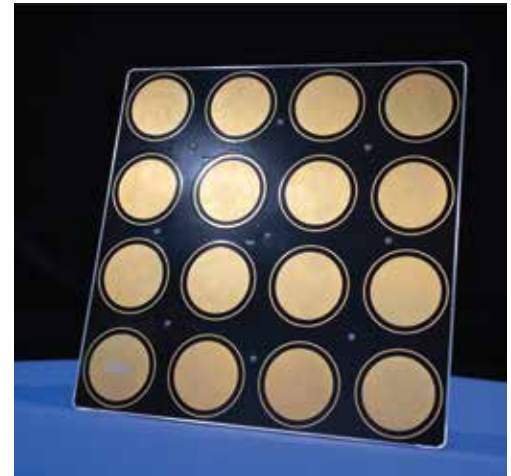
Digital Beamforming (DBF) Antennas

L/S/C-Band DBMs Simultaneously Tracking up to 32 targets Per Band

The DBF Antenna is an array of intelligent digital beamforming modules (DBMs) that captures and digitizes RF signals to bring the analog world into the digital realm (where splitting signals no longer equates to loss of signal-to-noise ratio). CDSI's DBMs are telemetry antennas able to automatically acquire and track multiple targets simultaneously. DBMs are designed to be connected to other DBMs via a mesh network that automatically configures a coherent DBF Antenna.

Key Capabilities

- Automatically Acquires/Tracks up to 32 **Simultaneous** Targets Per Band
- Greatly Reduced Physical Footprint and Ongoing Operational Costs
 - One Comparable DBF Antenna can Replace Several Traditional Pedestal Antennas
- Ultra-fast Angular Tracking Rates and Signal Acquisition Times
 - Greater than 100°/second
- Flexible Antenna Aperture - Conforms to Any Shape
- Mesh Network Technology Affords Graceful Degradation and Fault Tolerance with Minimal Downtime
- Tile-based Architecture Allows Quick and Simple Maintenance
- Products Range from Portable to Fixed Ground or Trailer-mounted Solutions
- Ground, Air, Sea-based Systems - DoD/NASA/NOAA Contracts
- Full-service Mission Support Available





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Specifications

All High Performing DBF Antennas:

Tracking Beams.....	Up To 32 Per Band
Aggregate Signal Bandwidth.....	360MHz
Signal Acquisition Time.....	SNR Dependent
Angular Tracking Rates.....	>100°/second
Outputs.....	RF, IF, or Digital Options

Specific to Bands

L-Band DBF Antenna

Lower L-Band.....	1435-1540MHz
Upper L-Band.....	1755-1850MHz
G/T (LL-Band).....	-9.8dB/K + 10*LOG(# of DBMs)
G/T (UL-Band).....	-8.2dB/K + 10*LOG(# of DBMs)

S-Band DBF Antenna

Coverage.....	2200-2400MHz
G/T.....	-6.5dB/K + 10*LOG(# of DBMs)

C-Band DBF Antenna

Coverage.....	4400-5150MHz
G/T.....	+0.2dB/K + 10*LOG(# of DBMs)

