

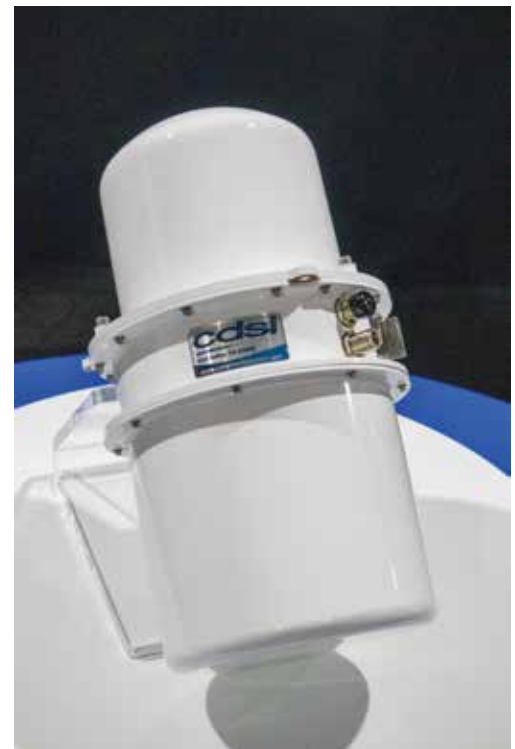
## Telemetry Tracking Feeds

### Modular RF Front-End with Band Dedicated Elements

CDSI's feed is designed as a modular assembly with a removable RF front end and a common fixed back end. This design provides mobile and fixed telemetry systems the option of an L/S-Band or C-Band prime focused antenna by simply swapping the RF front end with no adjustments required to the feed ring or spars. The RF elements are band specific providing two outputs per band. This allows for simpler band dedicated filtering with lower overall insertion loss and thus better G/T performance.

#### Key Capabilities

- Modular Feed Design
- Configurable in L, S, L/S & C-Band
- Available in Prime Focus and/or Cassegrain
- Forward Mounted Acquisition Aid Antenna
- Band Specific RF Elements
  - Reduced Pre-LNA Filter Losses
  - Increased Overall G/T
  - An Elegant Solution for High 4/5G LTE Rejection
- Compact Feed
  - 2/3 the size of typical feeds



C-Band Feed



L/S-Band 4G/5G LTE Rejection Feed with Acquisition Aid Antenna



CREATIVE DIGITAL SYSTEMS INTEGRATION

# Telemetry Tracking Feeds

## Modular RF Front-End with Band Dedicated Elements

### Specifications

#### High Gain Feed:

Type.....	Modular Conical Scanner
Frequency Bands.....	L-Band → 1435-1535MHz, 1755-1850MHz S-Band → 2200-2400MHz C-Band → 4400-4949MHz, 5091-5150MHz
Feed Elements.....	Compact, Band Specific Elements
Fixed Scan Rate.....	25Hz (Typical)
Variable Scan Rates.....	10Hz → 50Hz
VSWR.....	1.5:1
Polarization.....	RHCP & LHCP (Linear Available)

#### Acquisition Aid Antenna:

Type.....	SCM/Quadra-Scan
Frequency Bands.....	Same as High Gain Antenna
Feed Elements.....	Compact, Band Specific Elements
Polarization.....	RHCP & LHCP (Linear Available)

#### Environment:

Temp: Operational.....	-20°C to +50°C (Extended Temperature available)
Storage.....	-50°C to +70°C
Relative Humidity.....	0 to 100%