



ITC 2011

C-Band Special Session

C-Band Vendor Products

Telemetry & Communications Systems, Inc.
(TCS)
Michel Roy

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Bally's
Las Vegas, NV



Telemetry & Communications Systems, Inc.

- TCS, Inc. is a Small Business Founded in 1999, and Located in Chatsworth, CA.
- Offers a Full Range of New Telemetry Antenna Systems From 16" Up to 7.3-meter
- TCS Has Also Been Very Successful in Upgrading Old Telemetry Systems from Any Vendors





Telemetry & Communications Systems, Inc.

- TCS Flagship Products:
 - Antenna Control Unit - ACU-M1
 - Pedestal Interface Unit – PIU
 - Conical Scan Feeds – L/S & C-Band
 - Standard Built-in Pedestal Control Over Fiber Cable
- Antennae Frequency from L/S to X-Band





TCS' C-Band Feeds

(4400-4940, 5091-5250 MHz)

- Two Types of C-Band Feed:
 - Conical Scan Prime Focus
 - Conical Scan Cassegrain
(Used in Tri-Band Systems for L/S/C)
- Special C-Band Feeds:
 - Prime Focus iNET C-Band
 - Cassegrain iNET C-Band

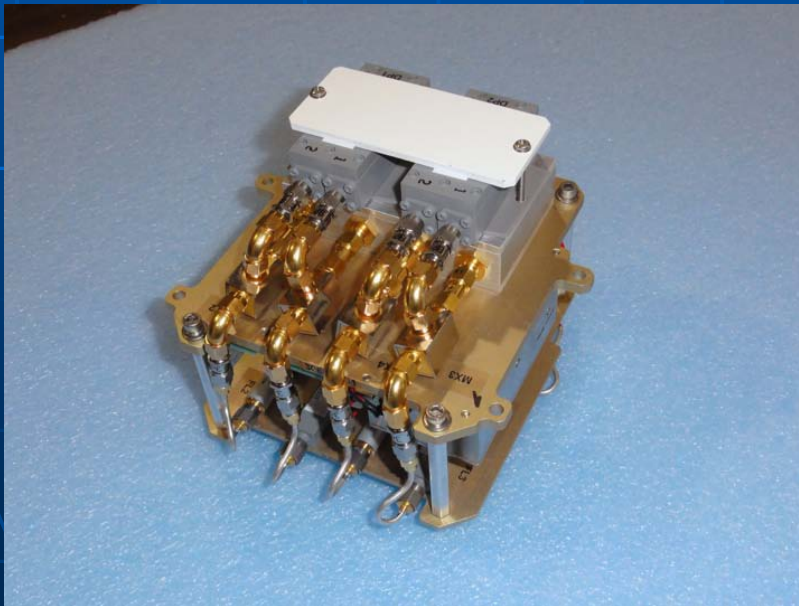




TCS' C-Band Feeds

(4400-4940, 5091-5250 MHz)

- C-Band Down Converter (DC)
 - Reversed Spectrum DC: 300-1150 MHz
- C-Band Acquisition Aid
- L/S/C Prime Focus Non Auto-Tracking Antenna





TCS' C-Band System Performances

- Minimum G/T for Standard L/S or C-Band Prime Focus Conical Scan Feeds

	Freq (MHz)	6' (1.8m)	8' (2.4m)	10' (3.0m)	16.4' (5m)
L/S Band	1500	2.6	5.1	7.1	11.4
	1750	3.9	6.4	8.3	12.6
	2250	5.8	8.3	10.3	14.6
	2350	6.1	8.6	10.5	14.8
C-Band	4450	11.0	13.5	15.4	19.7
	4900	11.7	14.2	16.2	20.5
	5120	12.0	14.5	16.5	20.8



TCS' C-Band System Performances

- Minimum G/T for Standard Cassegrain Systems with L/S and C-Band Conical Scan Feeds

	Freq (MHz)	6' (1.8m)	8' (2.4m)	10' (3.0m)	16.4' (5m)
L/S Band	1500	0.7	3.2	5.1	9.4
	1750	3.5	6.0	7.9	12.2
	2250	5.0	7.5	9.4	13.7
	2350	5.7	8.2	10.1	14.4
C-Band	4450	10.3	12.8	14.8	19.1
	4900	11.1	13.6	15.6	19.9
	5120	11.2	13.7	15.8	20.1



Delivered TCS' C-Band Auto-Tracking Systems

- Six 8/10-Ft L/S/C Systems to Pax River
- One Mobile 8-Ft L/S/C System to Eglin AFB
- Two 6/8-Ft L/S/C Systems to Edwards AFB
- Three C-Band Ready 10-Ft S/C Systems to Andøya, Norway





In-Production TCS' C-Band Auto-Tracking Systems

- One 6-Ft L/S/C for Boeing, Missouri
- Two 10-Ft S/C for South Korea
- Two 8-Ft L/S/C for BAE/China Lake
- Four Mobile Systems 4/6/8-Ft L/S/C to Edwards AFB
- Ground Base 8-Ft L/S/C Systems for Edwards AFB, 5-Year IDIQ Contract



TCS, Inc.

COME SEE US IN
BOOTH # 1029