

CANTADA



Constellation CMDL-1 L-Band Downlink Module

Advantages

- ✓ Hot Swappable
- ✓ Modular Design
- ✓ Integrated L-Band Mux-Tee
 - Flat Gain Profile
 - Linear Phase
- ✓ Integrated Power Injection
 - 24 VDC / 50W
 - Overload Protection
 - Short Circuit Protection
 - Fully Redundant Power
 - Selectable Output Voltage
- ✓ Integrated Distribution Amp
 - Adjustable L-Band Gain
- ✓ Integrated 10 MHz Reference
 - Adjustable Output Level
- ✓ Integrated 22 kHz Reference

Details

The Constellation CMDL-1 L-Band Downlink Module integrates a high gain broadband distribution amplifier, LNB power insertion, 22 kHz, and 10 MHz reference clock into a single Constellation CMDL-1 module. The Constellation CMDL-1 Downlink Module plugs into any Constellation chassis which provides the module with fully redundant DC power, and reference clock. The Constellation CMDL-1 Downlink Module is hot swappable and can be replaced in less than a minute. The Constellation CMDL-1 Downlink Module amplifier gain and reference output levels are easily adjusted at the front of the module. Output voltage is selectable at the rear of the module. Both voltage and 22 kHz can be independently enabled or disabled at rear of the module.

Constellation CMDL-1

L-Band Downlink Module

Specifications

DC Operation	Min	Typical	Max
Operation Current	110 mA	150 mA	180 mA
Operation Voltage	16 Volts	24 Volts	30 Volts
Output Voltage	23.5	24 Volts	-
	17.5	18 Volts	18.2
	11.5	12 Volts	12.2
Output Current	@24 Volts	-	2.35 Amps
	@18 Volts	-	2.80 Amps
	@12 Volts	-	4.00 Amps

10 MHz Reference Frequency	Min	Typical	Max
Adjustable Range	-15 dB	-	+15 dB
Output Level	-	10 dBm	14 dBm

22 kHz Reference Frequency	Min	Typical	Max
Frequency	-	22 kHz	+/- 2 kHz
Level	-	2.2 Vpp	+/- 0.2

RF	Min	Typical	Max
Bandwidth	0.9 GHz	-	2.2 GHz
Gain	-10dB	-	+20 dB
Impedance Order Option	-	50 Ω/ 75 Ω	-
Gain Step Size	1.5 dB	2 dB	2.5 dB
Gain Flatness	-1 dB	-	+1 dB
Antenna Port Return Loss (S11)	8 dB	12 dB	-
Modem Port Return Loss (S11)	9 dB	11 dB	-
Group Delay	-	+/- 0.5 nS	+/- 1.0 nS
Input Power (Antenna Port)	-	-10 dBm	-
Output Power (Modem Port)	-	10 dBm	-

MADE IN THE USA

