

RX1 Modulated Input

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Introduction

It has been quite some number of years since I dealt with Modulators and Receivers, so I did struggle a little with this recently, these are some notes of the values I used, just to get a Mod/Demod setup going.

Hardware Connections

See below for the connection method between the AVP and the RX1.



The Monitor F-Type output of the AVP is connected directly to the RF input of the RX1 (RX4 is on the left). There is no up-converctor or attenuator in use.

AVP Output Parameters

Below is the output settings I used on the AVP Modulator.

Satellite Modulator

Output Parameters

Modulation Parameters

Input Parameters

Carrier ID

RF Carrier ID State

On

Output Select

IF

L-Band

Output State

On (Nominal Power)

On (Reduced Power)

Off

Output Power-up State

On (Reduced Power)

Off

Last State

L-Band Output

Frequency Input Mode

L-Band Frequency

Uplink Frequency

L-Band Frequency

1070

MHz [950 - 2150]

Reduced L-Band Line-up Power

-5

dBm [-40 - 5]

Nominal L-Band Power

-10

dBm [-40 - 5]

L-Band Spectrum Sense

Normal

Inverted

L-Band Tilt

0

dB/MHz [-0.04 - 0.04]

L-Band Up-converter Frequency

2500

MHz [2500 - 100000]

Upconverter Power

Off

15V

24V

Upconverter Reference

Off

Output Parameters

RF Carrier ID State	On (don't confuse this with Modulation on)
Output Select	L-Band
Output State	On Reduced Power (we don't want to overload the RX1 input)
Output Power-up State	(Last State)

L-Band Output

Frequency Input Mode	L-Band Frequency
L-Band Frequency	1070 MHz
Reduced L-Band Line-up Power	-5
Nominal L-Band Power	-10
L-Band Spectrum Sense	Inverted
L-Band Tilt	0
L-Band Up-converter Frequency	2500 MHz
Upconverter Power	Off
Upconverter Reference	Of

AVP ModulationParameters

Below is the Modulation settings I used on the AVP Modulator.

From:

<http://cameraangle.co.uk/> - WalkerWiki - wiki.alanwalker.uk

Permanent link:

http://cameraangle.co.uk/doku.php?id=rx1_modulated_input&rev=1699370726

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