



USB Power Supply

Oscillator

Attenuator Bessel Bandpass Filter

Elliptic (Cauer) Lowpass Filter

Butterworth Bandpass Filter

RF Noise Source

Avalanche Noise Generator

Noise OUT

12V Power Supply

Zener Diodes above 6V use Avalanche Breakdown instead of Zener Breakdown. BZX384-C7V5

Active-Low Reset Monitor will light up Red LED when Input Voltage drops below 3.5V which means battery or USB power is too low. Otherwise only subsequent current of RF switches and other active flows when in Passthrough Mode.

Red = Power Supply too Low  
 vBUS Yellow = Powered From USB  
 +3.3V Green = Upconverting

RFS1=High=Passthrough  
 RFS2=Low=Upconvert

NooElec Inc.	
Sheet: /	
File: HIU Plus v1.3a2.sch	
<b>Title: Ham It Up Plus</b>	
Size: A4	Date: 2017-06-25
KiCad E.D.A. kicad (2015-09-12 BZR 6186, Git 72e50b4)-product	Rev: 1.30a2
Id: 1/1	