

DIN 41612 male

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**POWER METER**

DIN 41612 female

DIN 41612 male

miso miso clk ce le pll\_lock gnd

+5V gnd

HE10

bornier

I/O wrapper board

HE10

counter frontend

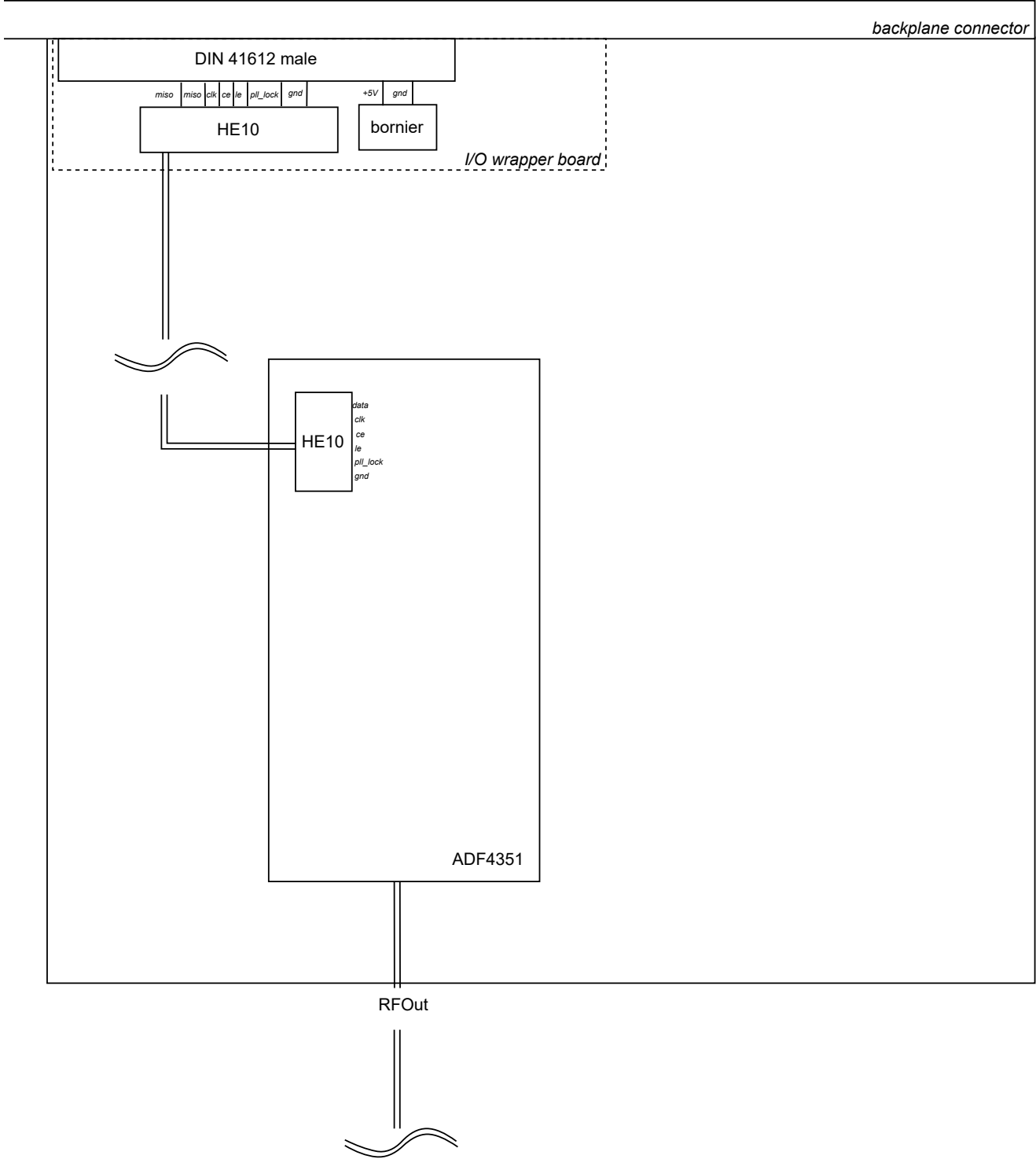
RFIn  
(10MHz/High Z)

RFIn  
(1200MHz/50 ohms)

BF/HF frontend

VHF frontend

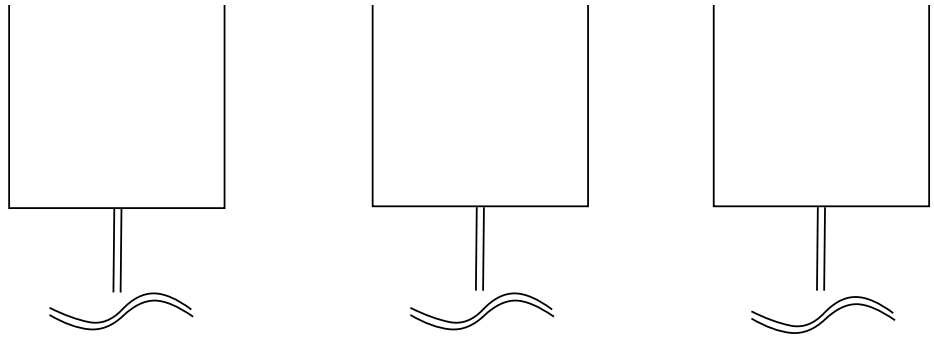
SHF frontend



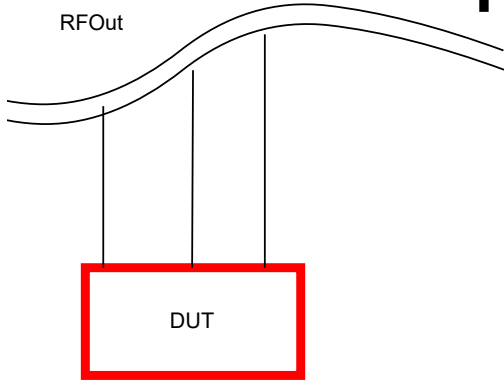
**RF GENERATOR**



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# FREQUENCY METER



**RF generator :**

Expected characteristics :  
- Pout = [-70dBm; 10dBm]  
- Pout step = 0,1dB  
- Frequency = 0-5GHz

TBD :  
- out modulation ?

**RF frequencymeter :**

Expected characteristics :  
- Frequency = 0-5GHz  
-Resolution : < 1hz

TBD :  
- need RF-front-end ?  
- need prescaler

**RF powermeter :**

Expected characteristics :  
- Pin = [-70dBm; 10dBm]  
- Pout step = 0,1dB  
- Frequency = 0-5GHz

TBD :  
- need RF front-end ?

**ESP32 :**

Expected characteristics :  
- web server  
- very low measurement latency  
- integrated ADC : 12 bits

**Power supply :**

Expected characteristics :  
- input voltage : 220V/50z  
-low consumption (TBD)

**Miscellaneous:**

- push button (BP) : LCD menu (IP address, fw and hw versions, etc...)

**LCD :**

Expected characteristics :  
- I2C interface  
- 2 lines / 16 characters