

hp 1..4, slot 1 is unused; PSU(s) may go here.

hp 5..8, slot 2 is unused; PSU(s) may go here.

hp 9..12, slot 3 is unused; PSU(s) may go here.

hp 13..16, slot 4 is unused; PSU(s) may go here.

Slot 1  
OK to have card guides

Slot 3  
OK to have card guides

PSU may be independent or  
have a current sharing  
PSU backplane

Slot 3  
OK to have card guides

possible location for VAC input  
circuitry for PSU(s) or other circuitry

Slot 4; OK to have card guides

Slot 5; must have card guides

standoff

SMA  
edge launch  
1 of 4

iADC  
1 and 2

Slot 6; OK to have card guides at slot 6

Slot 7; must have card guides

iADC  
3 and 4

Slot 8; OK to have card guides at slot 8

NO Backplane!

Slot 9; must have card guides

iADC  
5 and 6

Slot 10  
OK to have card guides at slot 10

Slot 11; must have card guides

iADC  
7 and 8

Slot 12  
OK to have card guides at slot 12

Slot 13; must have card guides

iADC  
9 and 10

Slot 14  
OK to have card guides at slot 14

Slot 15; must have card guides

iADC  
11 and 12

Slot 16  
OK to have card guides at slot 16

Slot 17; must have card guides

iADC  
13 and 14

Slot 18  
OK to have card guides at slot 18

Slot 19; must have card guides

iADC  
15 and 16

Slot 20; OK to have card guides at slot 20

hp 81.84 slot 21 is unused.

NO Backplane!

Slot 21  
OK to have card guides at slot 21

+5V, GND copper  
wires from PSU to  
iBob Sampler  
plate 1 has  
remote sense (if  
just 1 PSU or  
shared PSUs). No  
particular  
requirement for  
how these wires  
mate to the PSU.

Note regarding card  
guides:  
They must accept 2mm  
or .08" wide cards.

It's OK to have  
standard 160 mm front  
guides aligned with  
standard 80mm rear  
guides  
It's also OK to have 1  
very long guide that  
reaches from front to  
back.

Each Sampler  
plate has its  
own +5V, GND  
wires to/from  
the PSU. Not  
all connections  
shown for  
clarity.

iADC board fabrication thickness :  
.059" +/- .006"

between the bottom of the iADC pcb  
and the top of the AL plate are  
0.250" long #4-40 hex threaded  
spacers.

The AL plates are 2.0mm = .079"  
thick.

The plate to plate pitch is 8hp =  
1.6"

2008feb20: NO gap required here.

Attenuator, Filter,  
Amplifier module  
1 of 4  
Amp Atten switch 6dB atten  
GFS notch  
3.3V DC-DC  
clk ser 1d

11.02" measured

we want to have some gap here

Attenuator, Filter,  
Amplifier module  
1 of 4  
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GFS notch  
3.3V DC-DC  
clk ser 1d

actually: all the wires will  
be clumped together at the  
bathtub outlet; not shown  
here for clarity.