



Fixture Basic Functions / Features

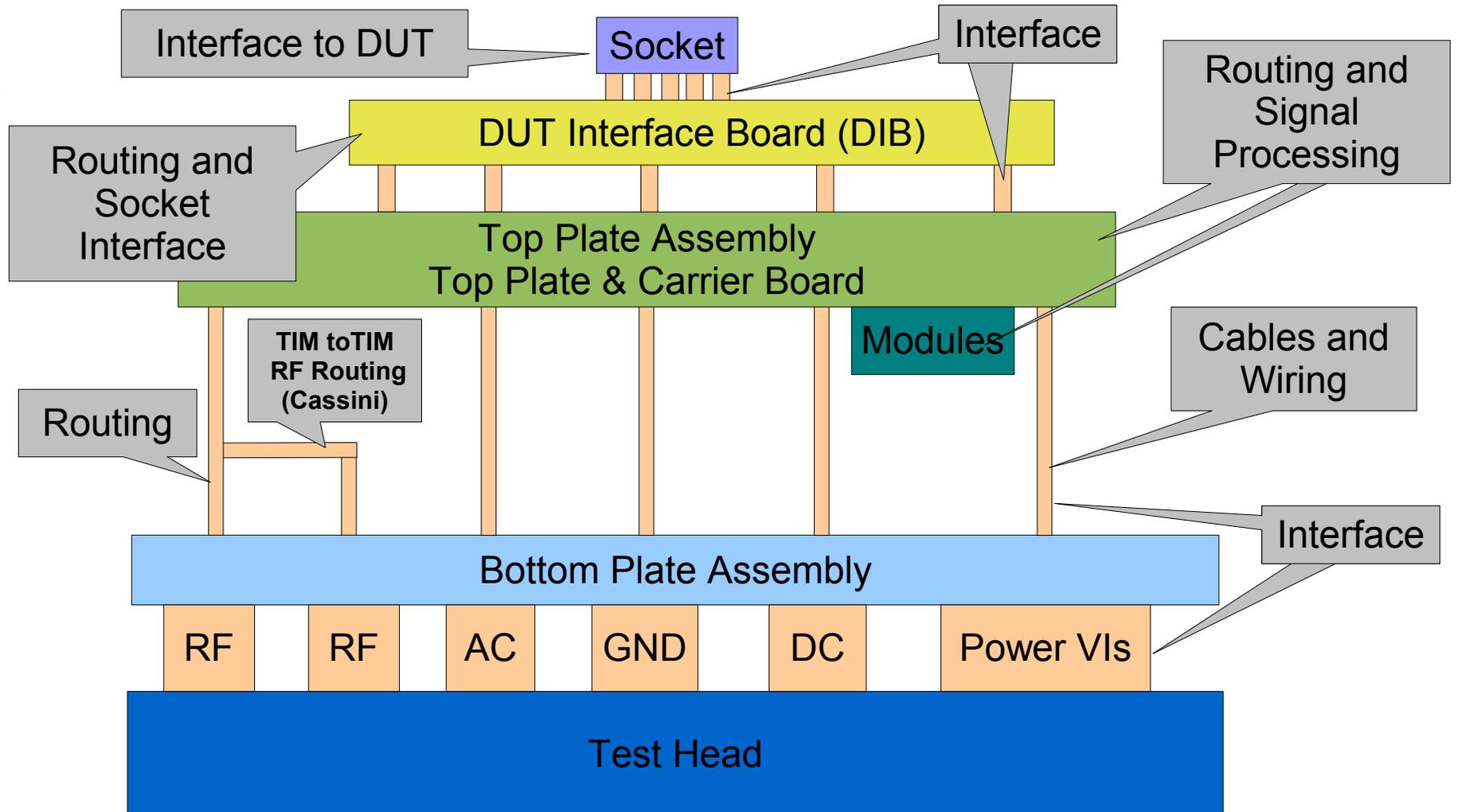
What does the fixture do?

- Allows for standard resource routing and switching from the test system to the Device Under Test (DUT). It also allows for specialized signal processing required for the DUT.

Required interfaces:

- RF, AC, and DC interfaces between the tester and fixture.
Bottom Board Assembly
- RF, AC, and DC interfaces between itself and the DUT interface board.
Top Board Assembly / Carrier Board
- Specialized signal processing for the DUT.
Carrier Modules
- DUT Interface Board (DIB) and socket.

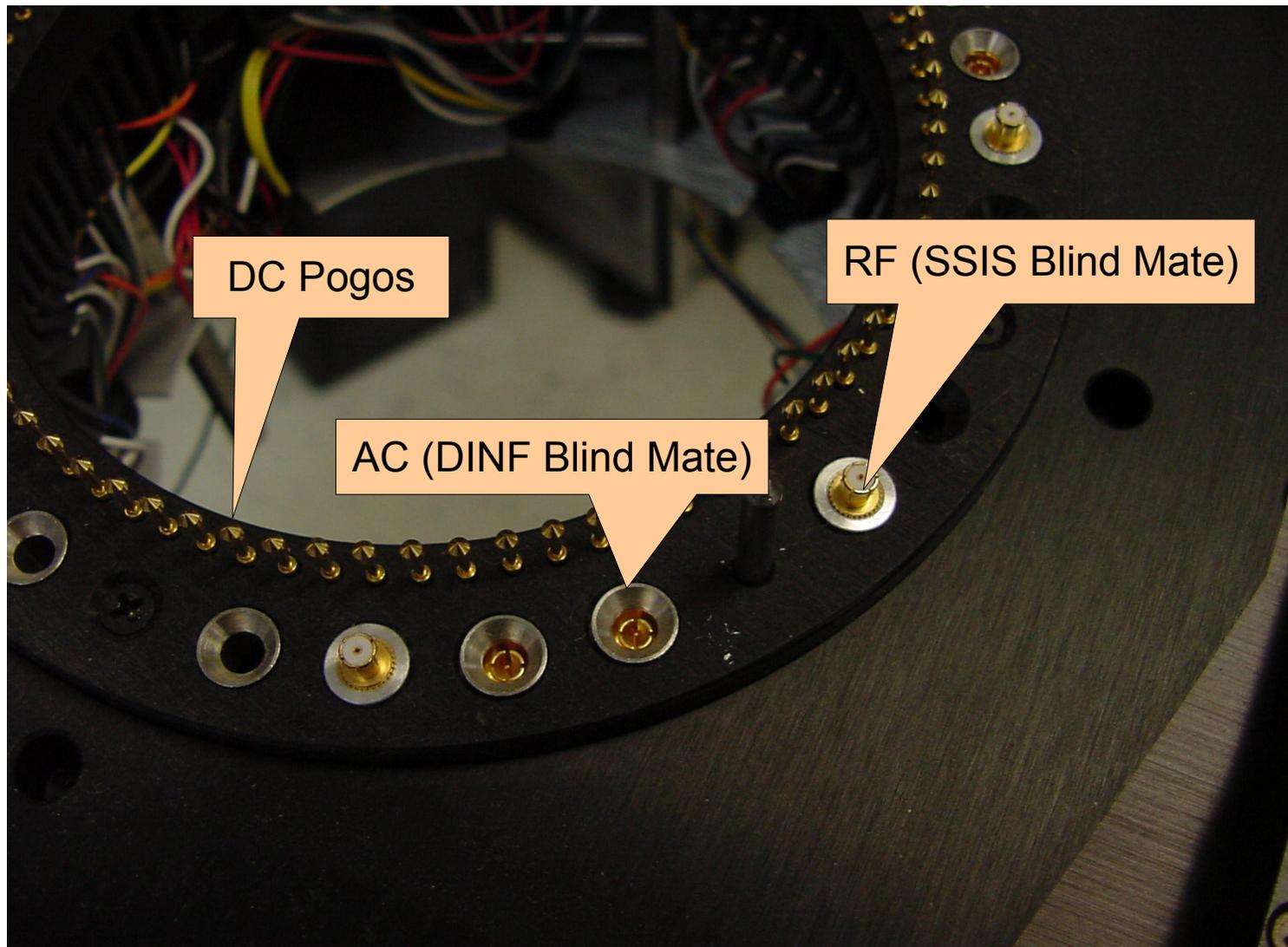
Fixture Layers Graphical Representation





Test Head Interface RI7100

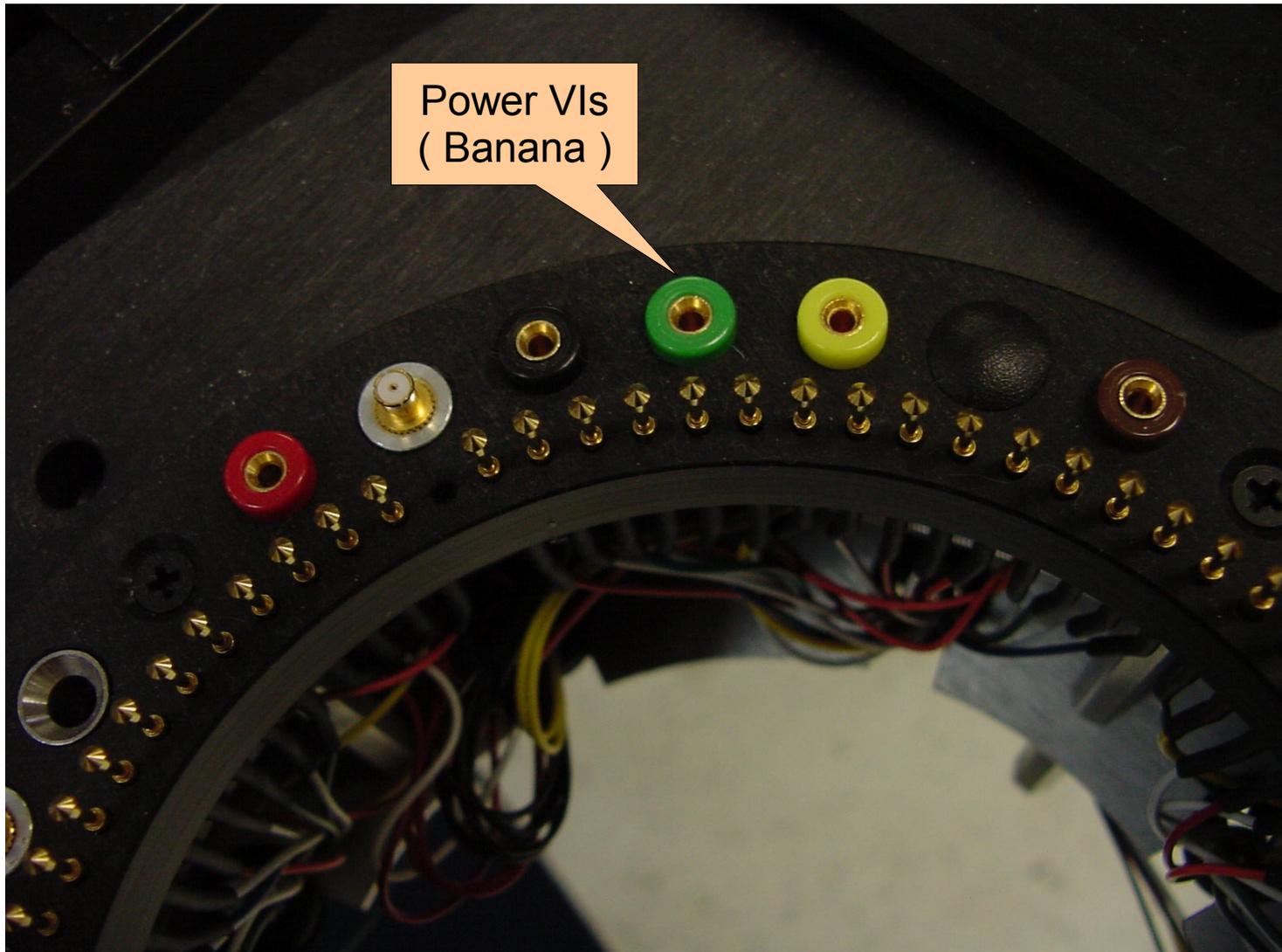
RF, AC, and DC





Test Head Interface RI7100

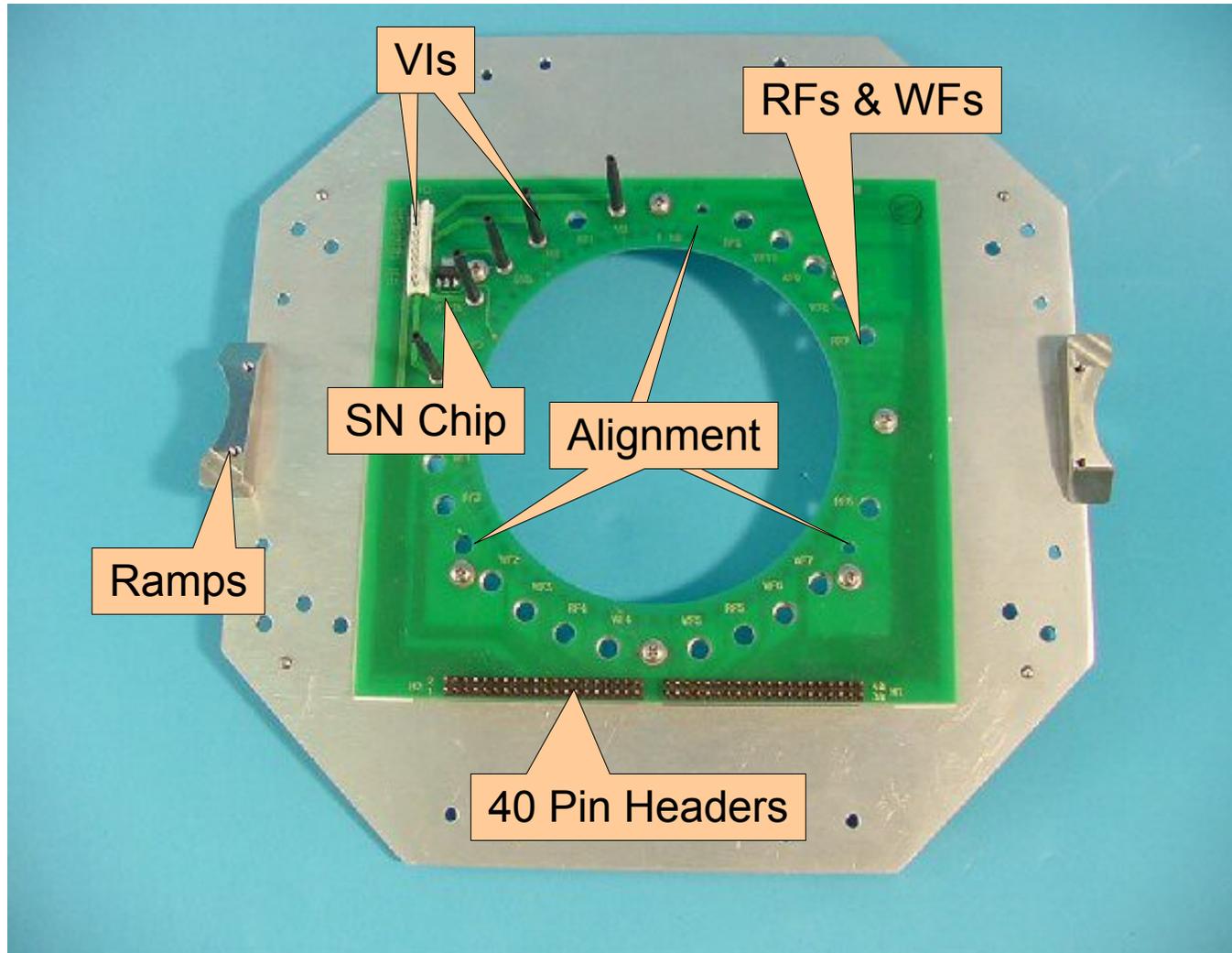
Power VIs





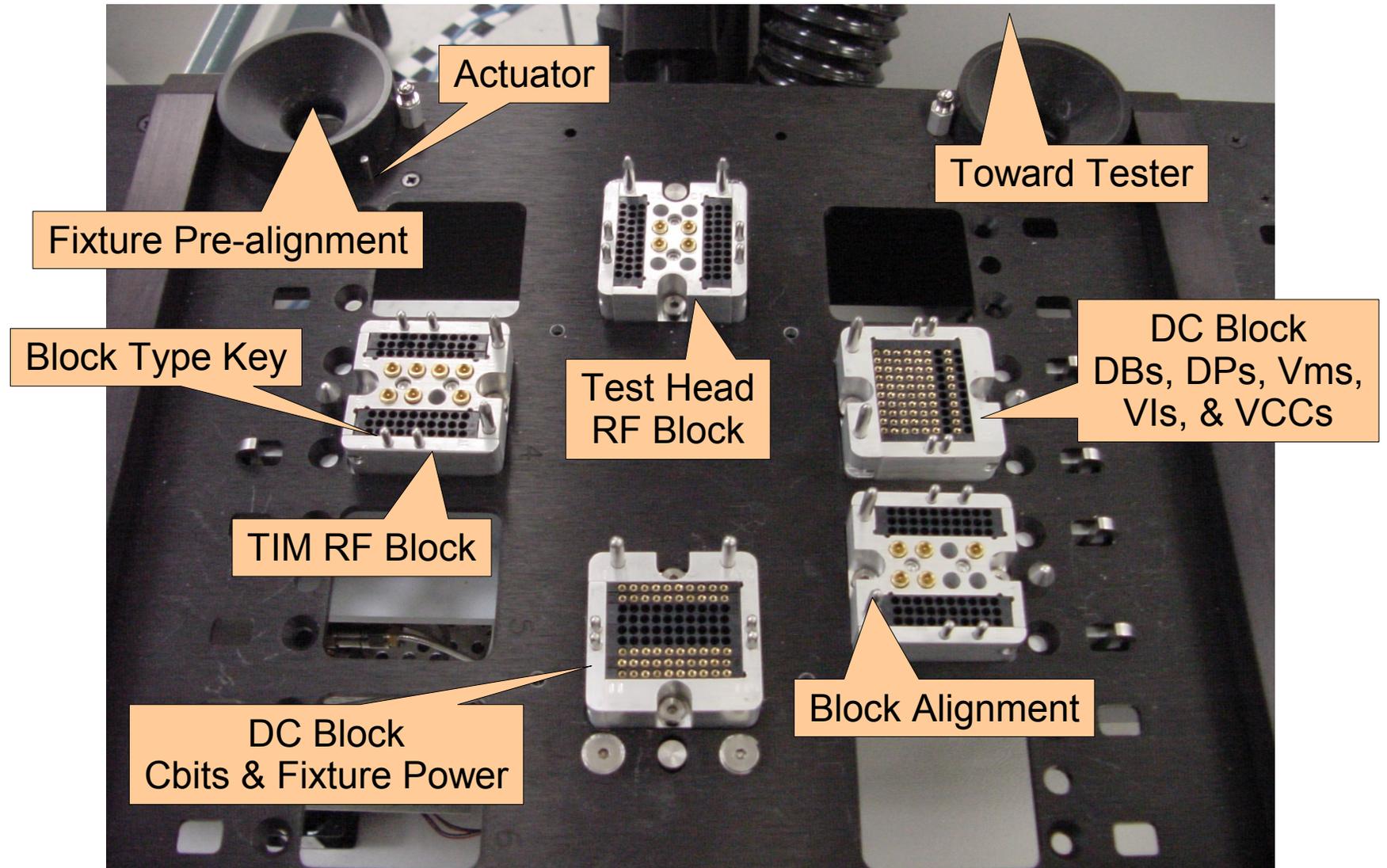
Bottom Plate Assembly Features

RI7100



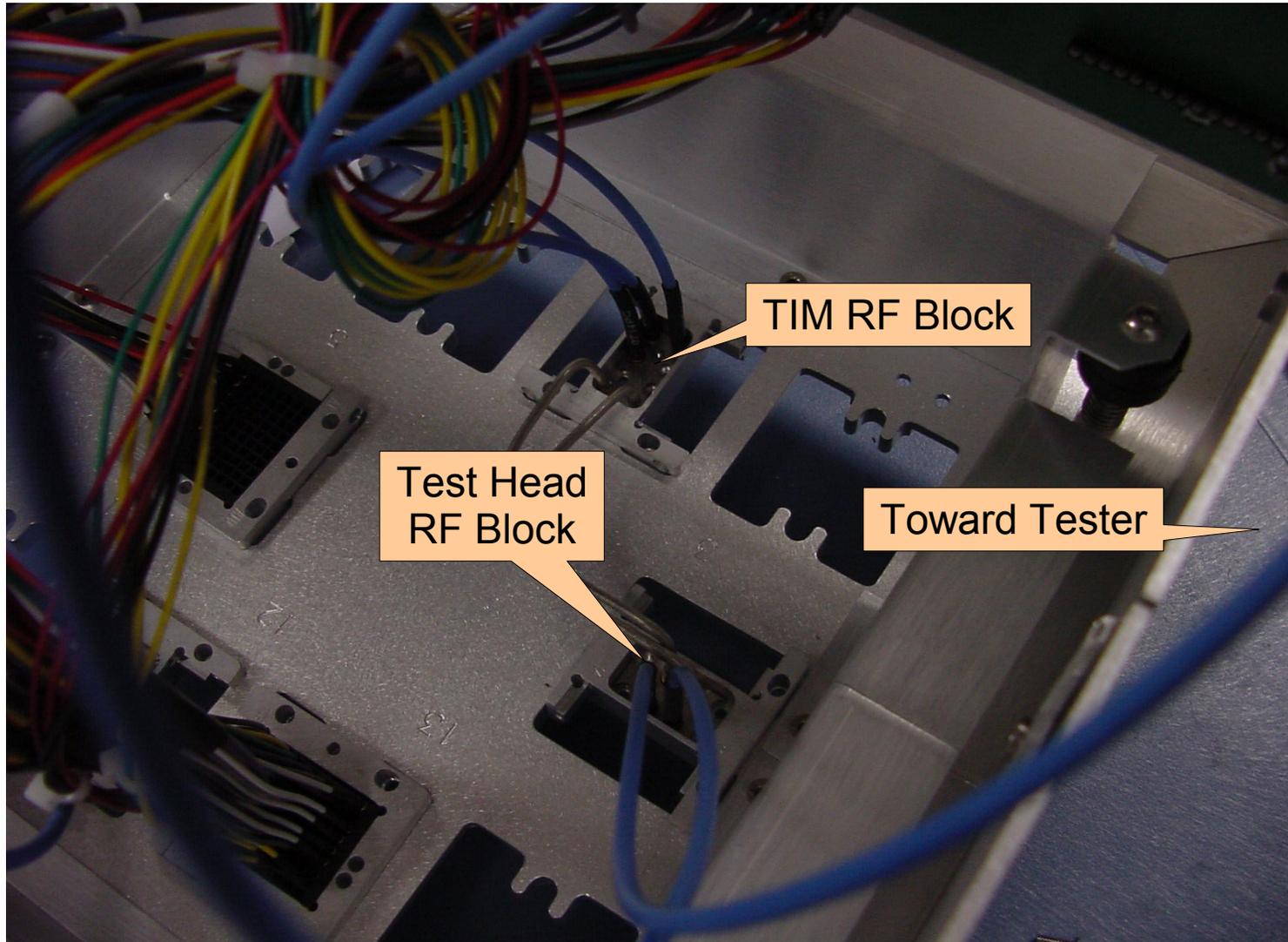


Test Head Interface Cassini RF, AC, and DC



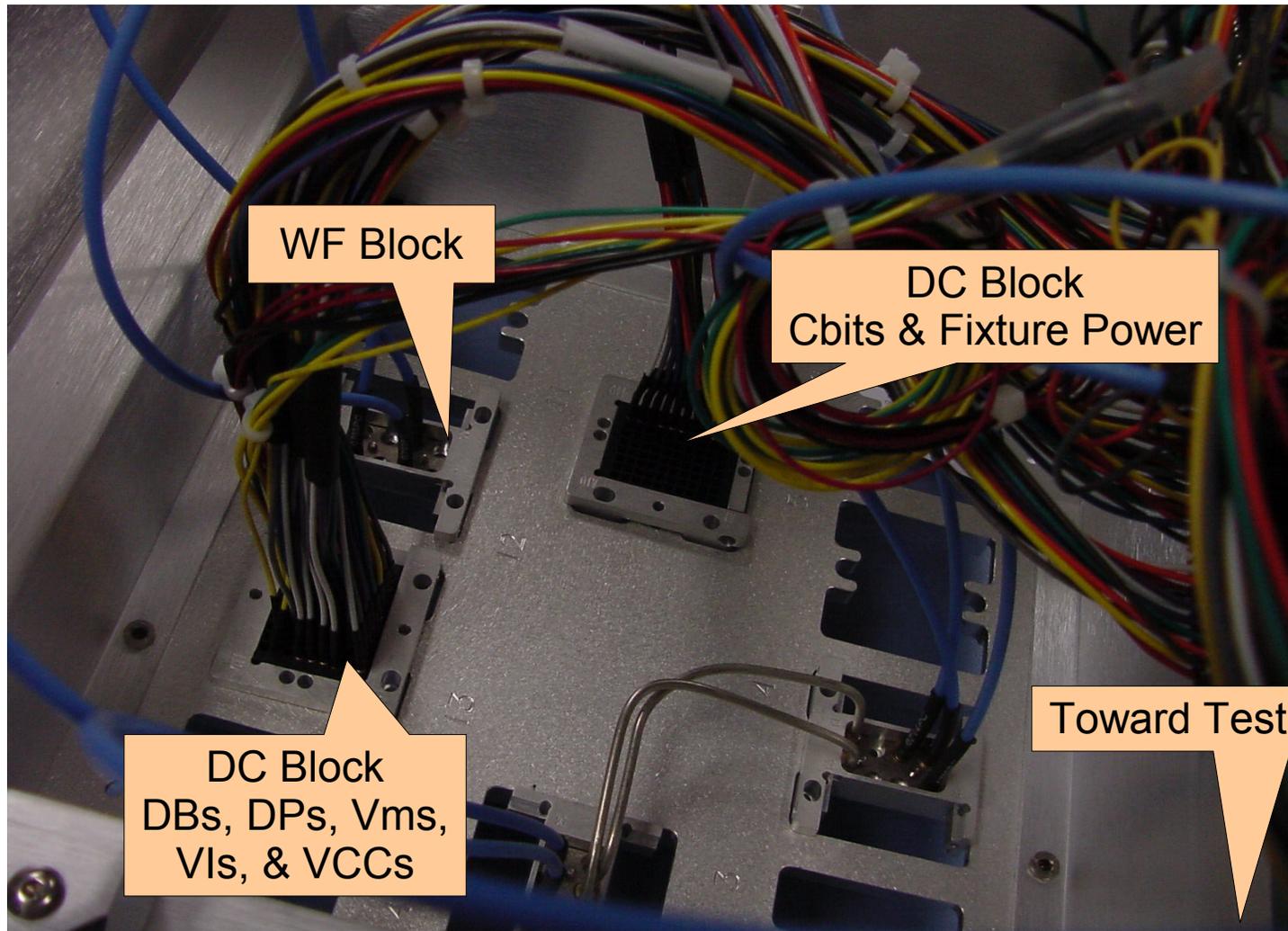


Fixture Bottom RF Blocks Cassini



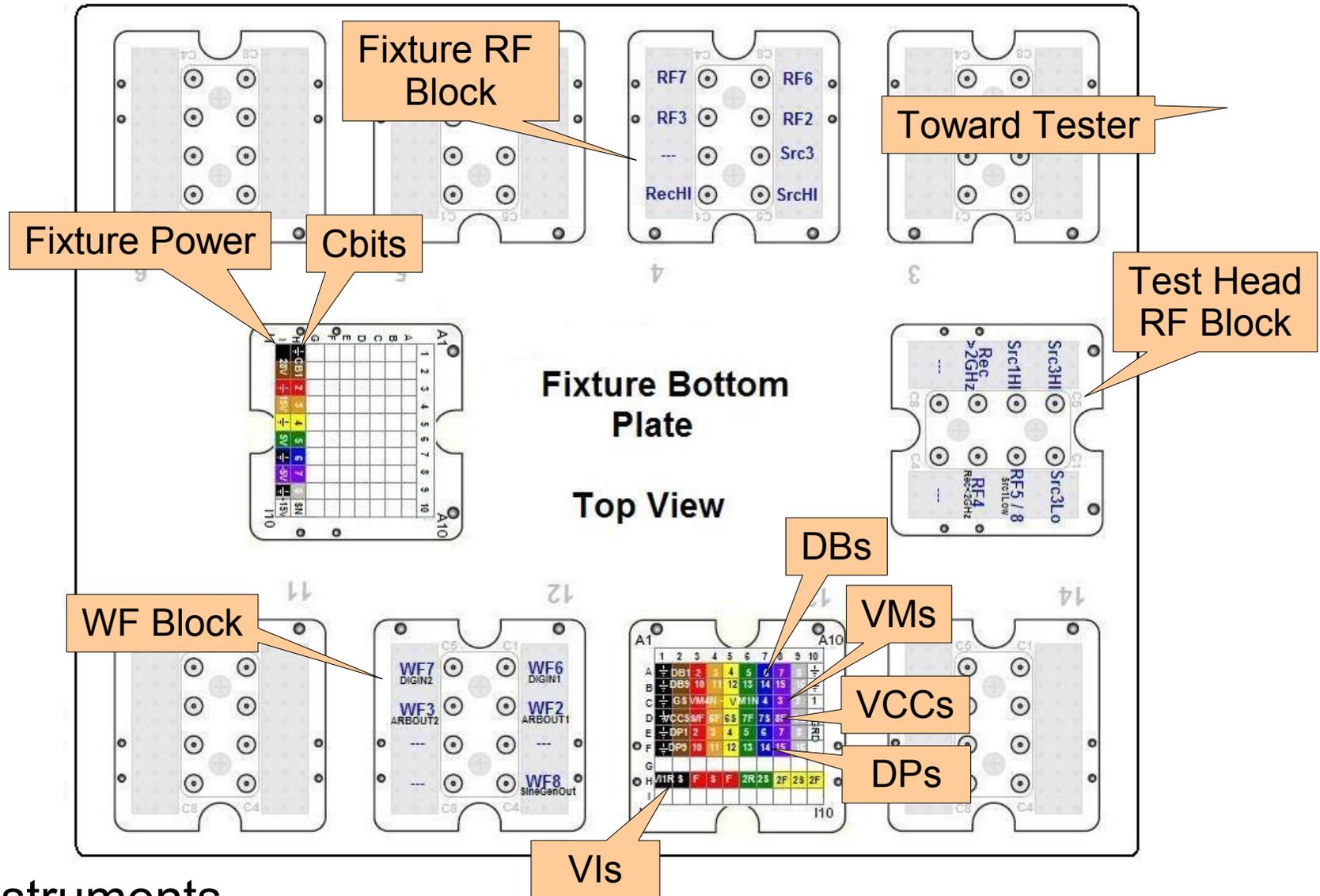


Fixture Bottom AC and DC Blocks Cassini

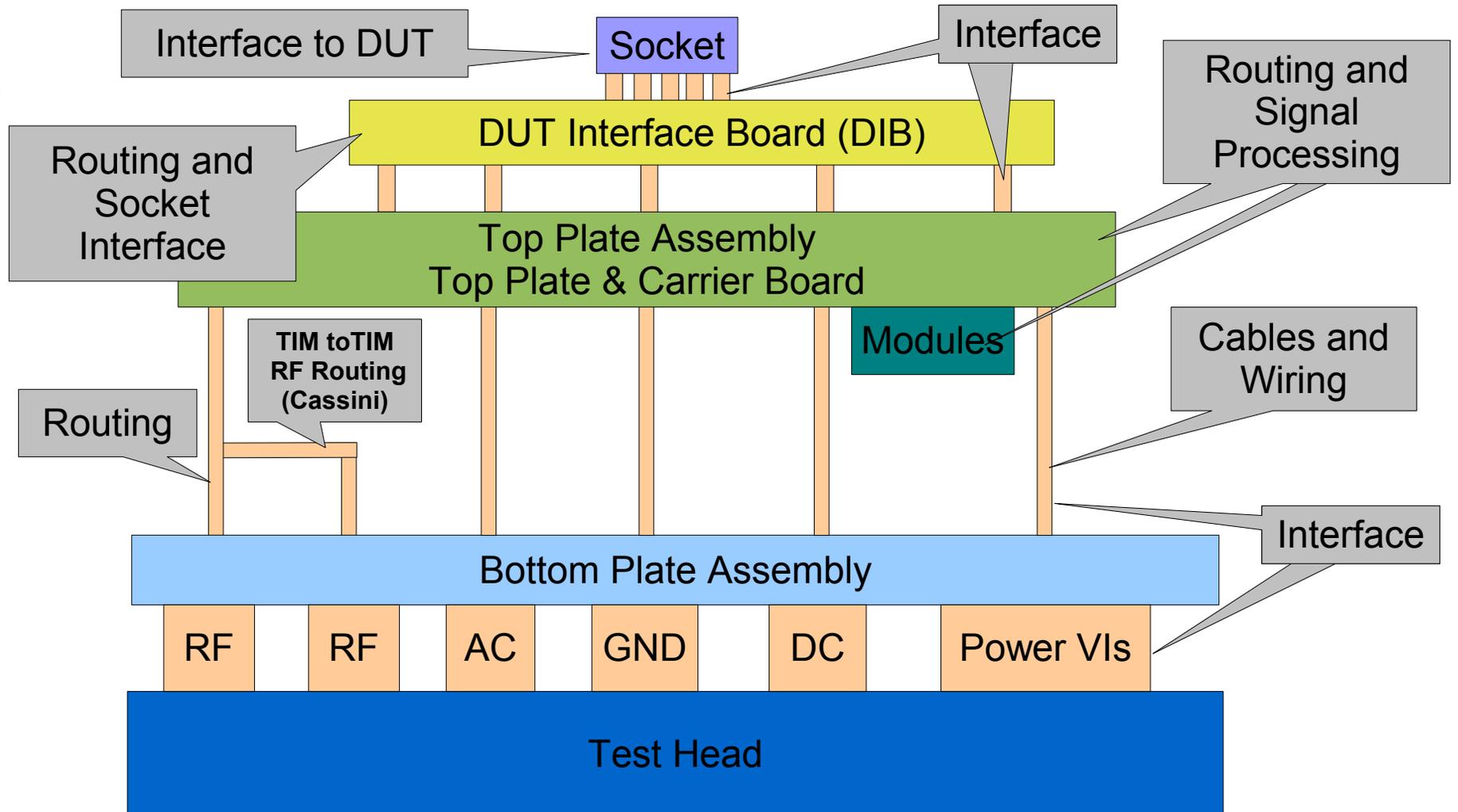




Fixture Bottom Resource Map Cassini



Fixture Layers Graphical Representation





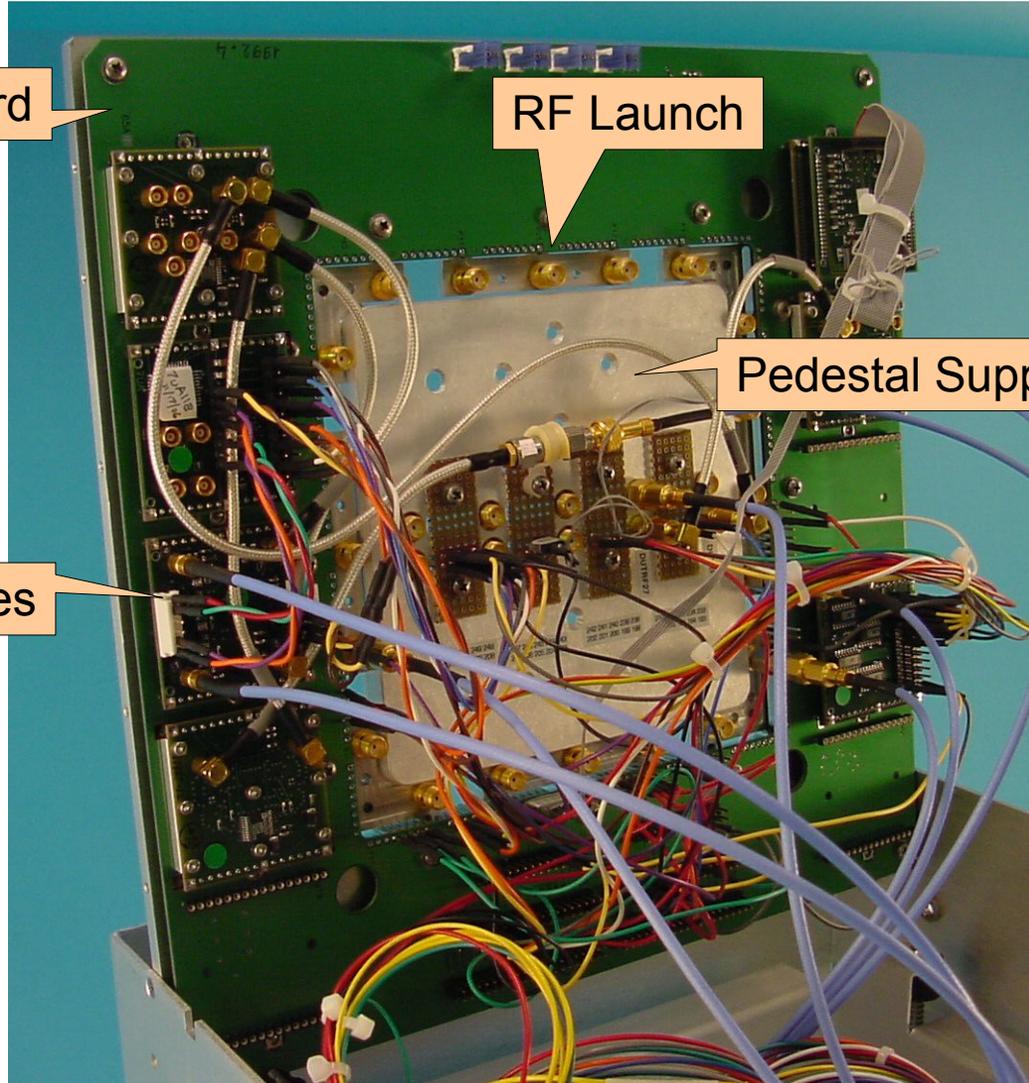
Top Plate Assembly Features

Carrier Board

RF Launch

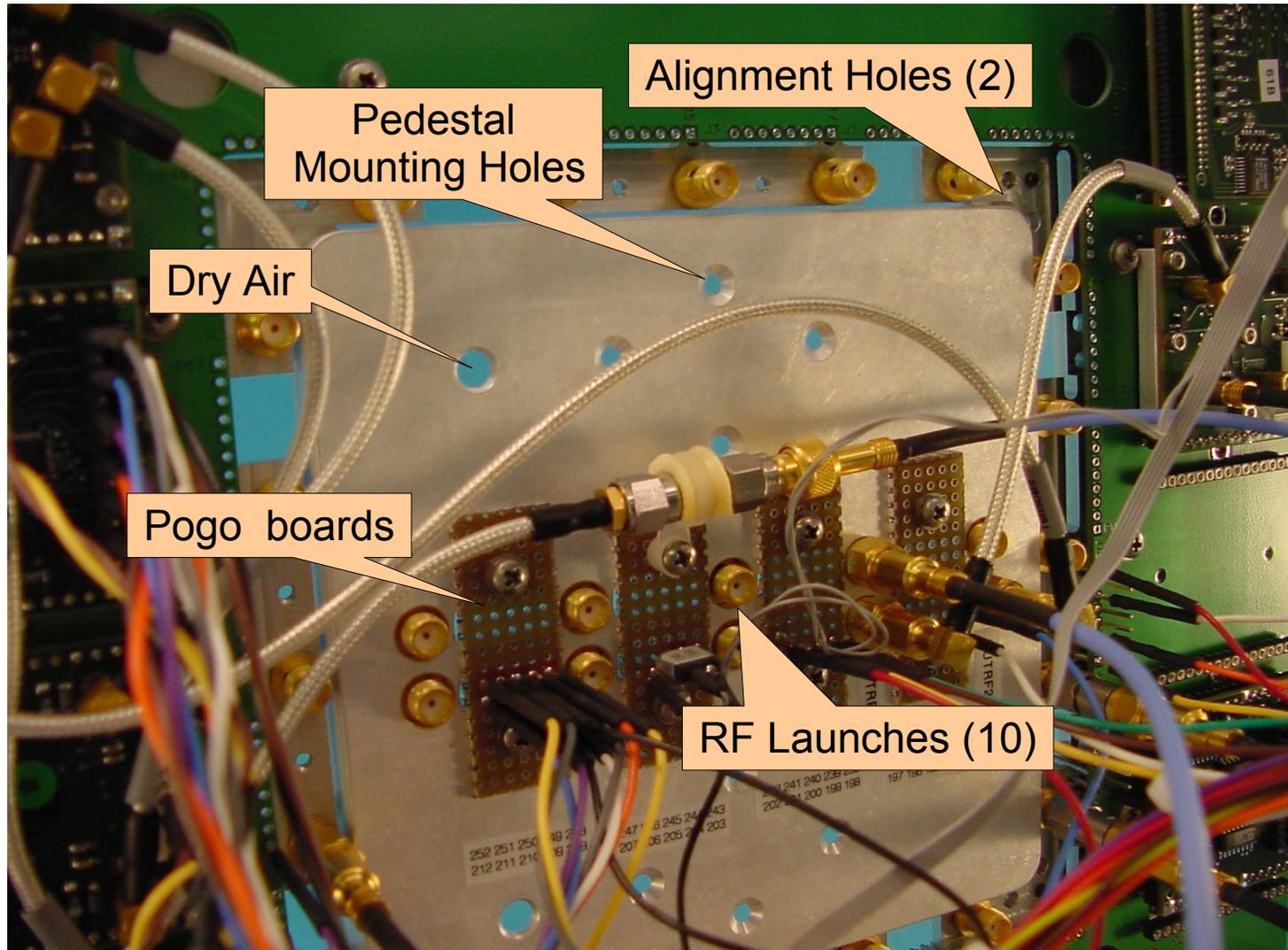
Pedestal Support

Modules





Pedestal Support Interior





Carrier Board Basic Features

Interior Side Features

Module locations

40 Pin Header

Aux Header

Pogo Locations

RF Locations

Exterior Side Features

Cbit Generation

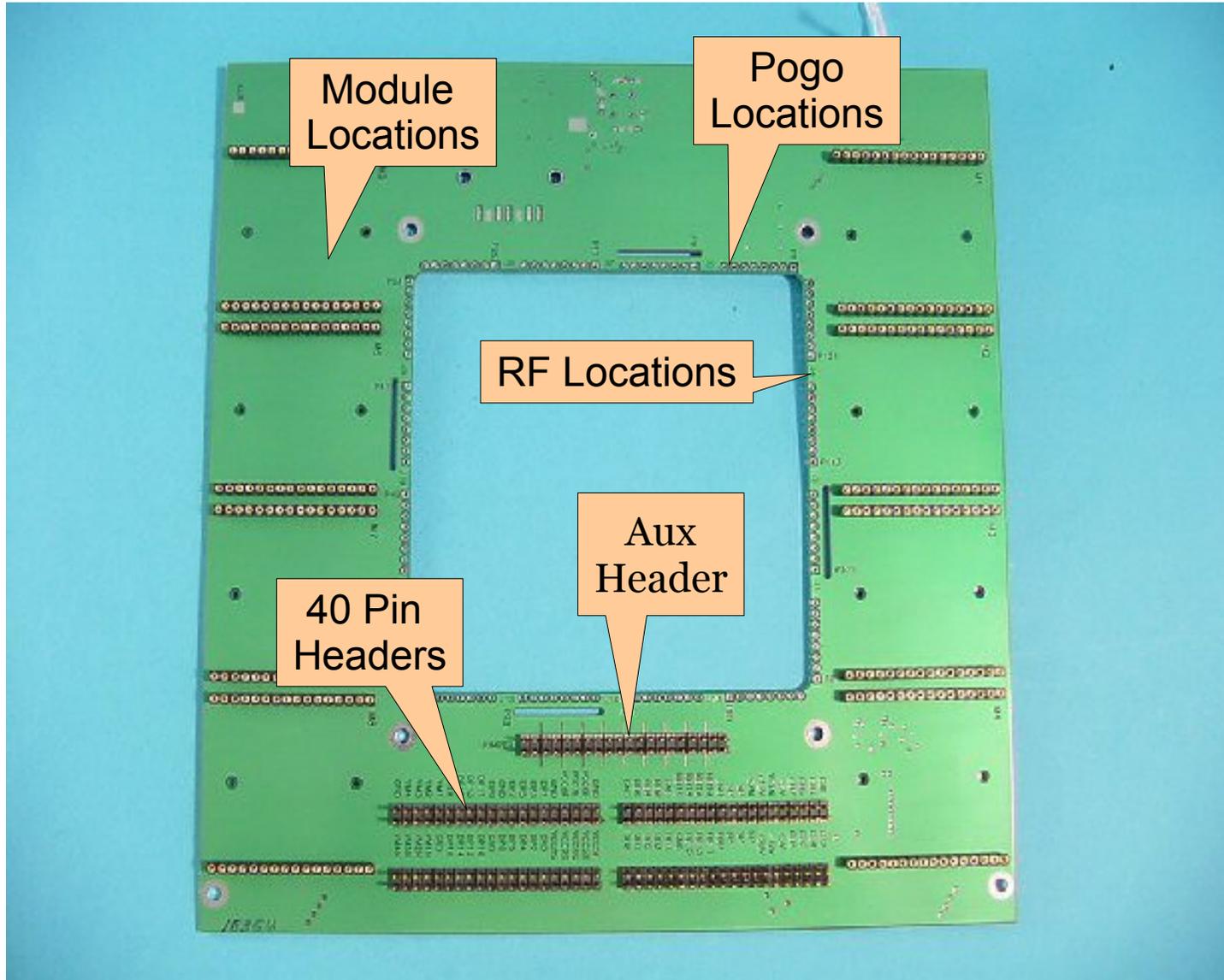
Module Control

3.3V Regulator

SN Chip (Cassini)

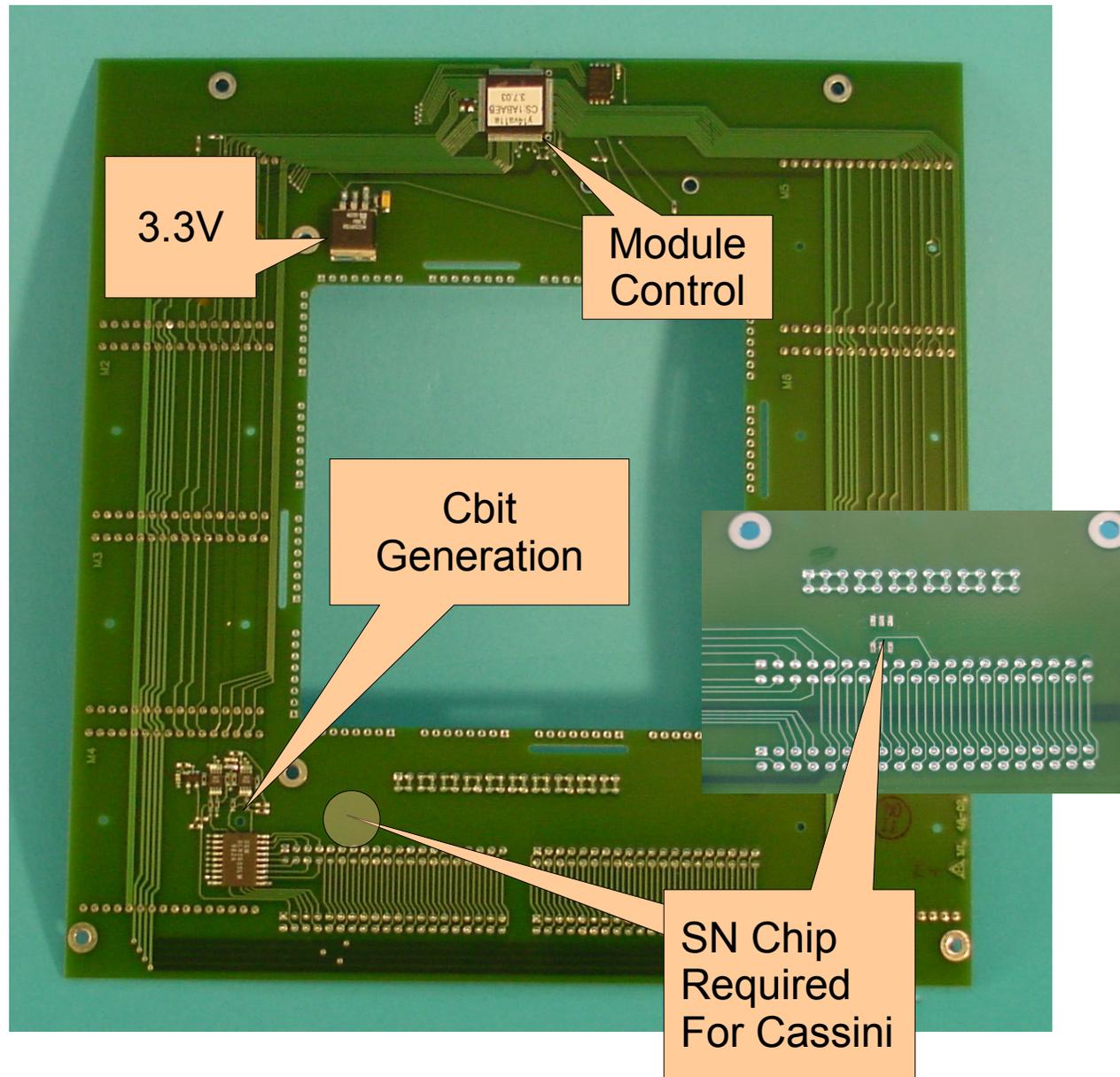


Interior Side Features





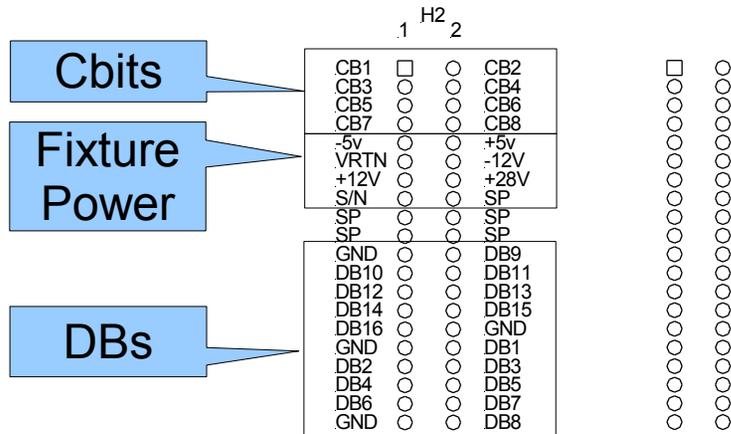
Exterior Side Features



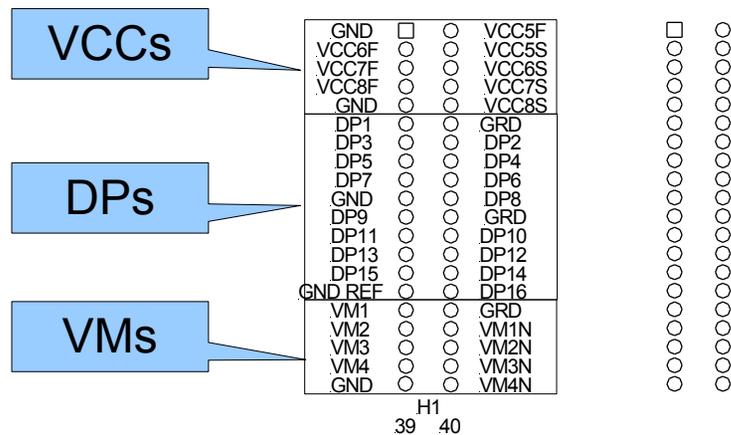


Carrier Board 40 Pin Headers

Board Interface Pin Designations



Connector side mapping 1:1

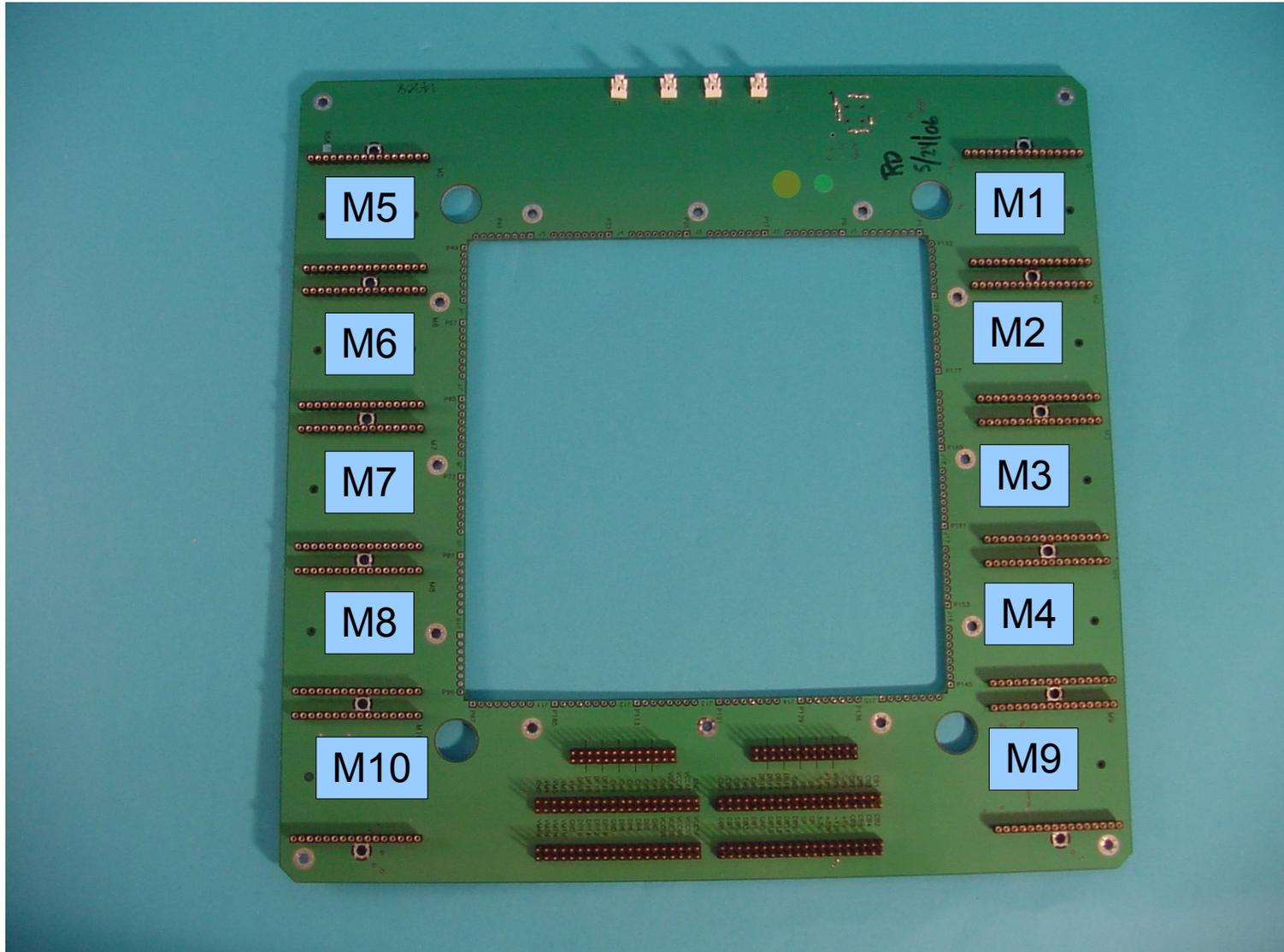


EDGE OF BOARD

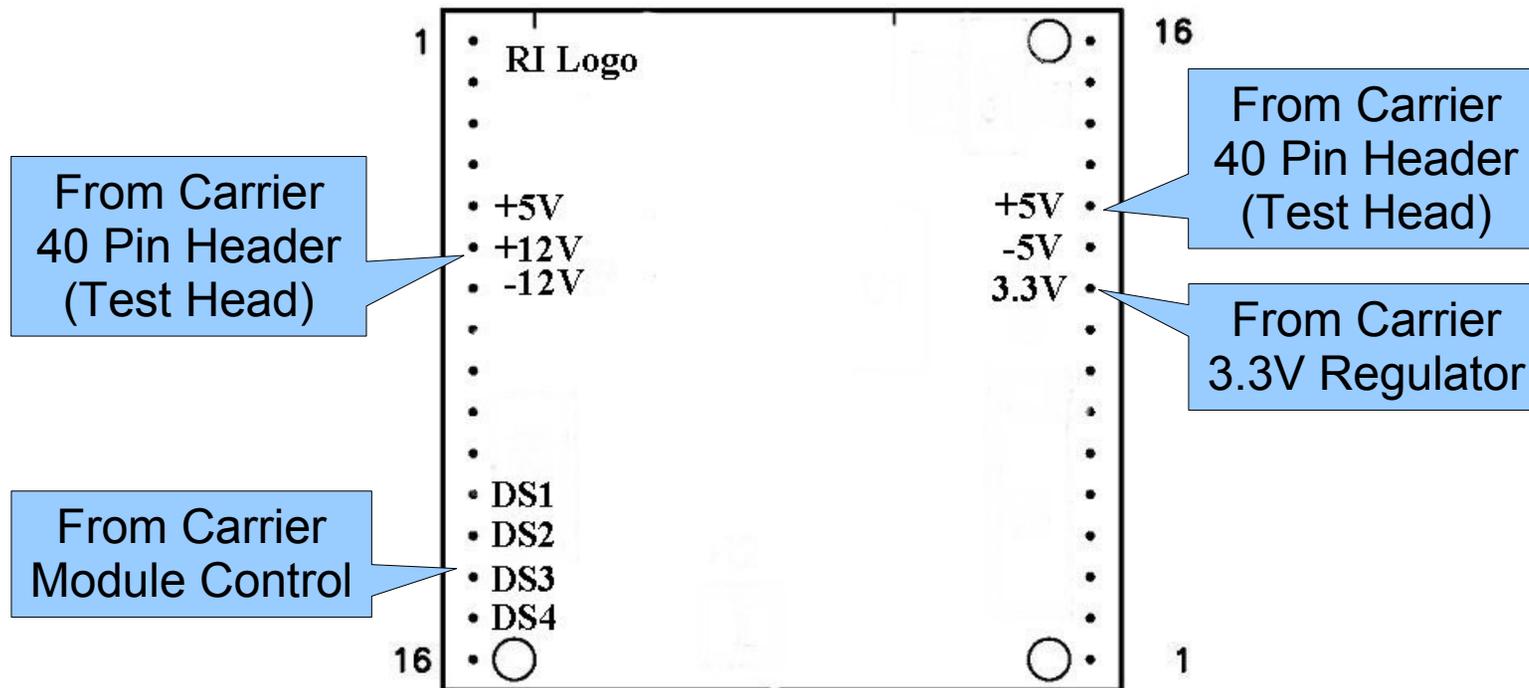
- Pin Designation Key:
- CB = Control Bits
 - SP = Customer Specific/Undefined
 - GND = Ground
 - VRTN = Voltage Return
 - DB = Static Digital
 - VCC = Power Supply
 - DP = Device Power
 - GRD = Guard
 - GNDREF = Ground Reference
 - VMx = Voltage Measure x
 - VM1N = Differential Voltage Measure x



Module Locations 20RF



Module Voltages

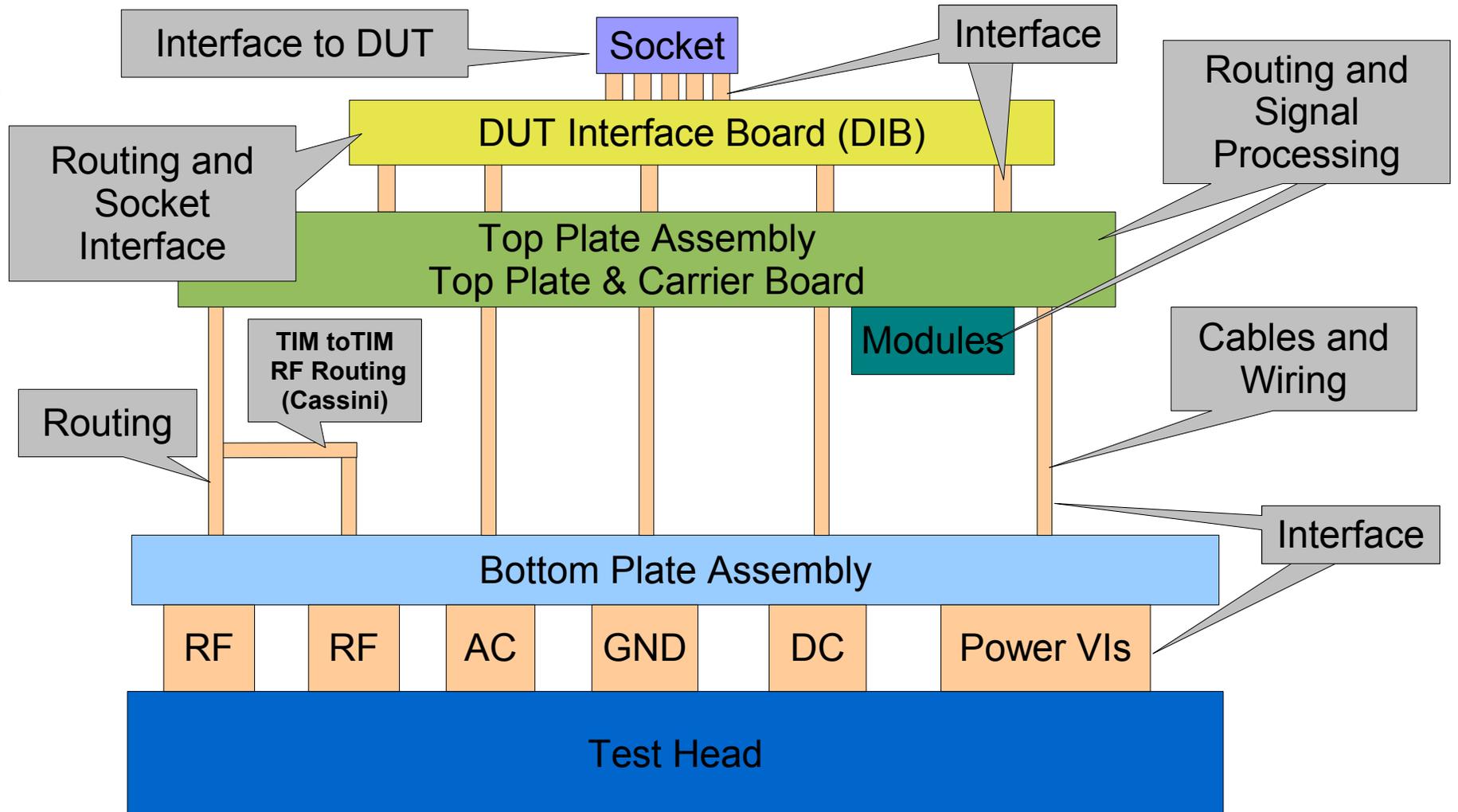


Note:

1. DS1-4 are not available on Passive carrier boards

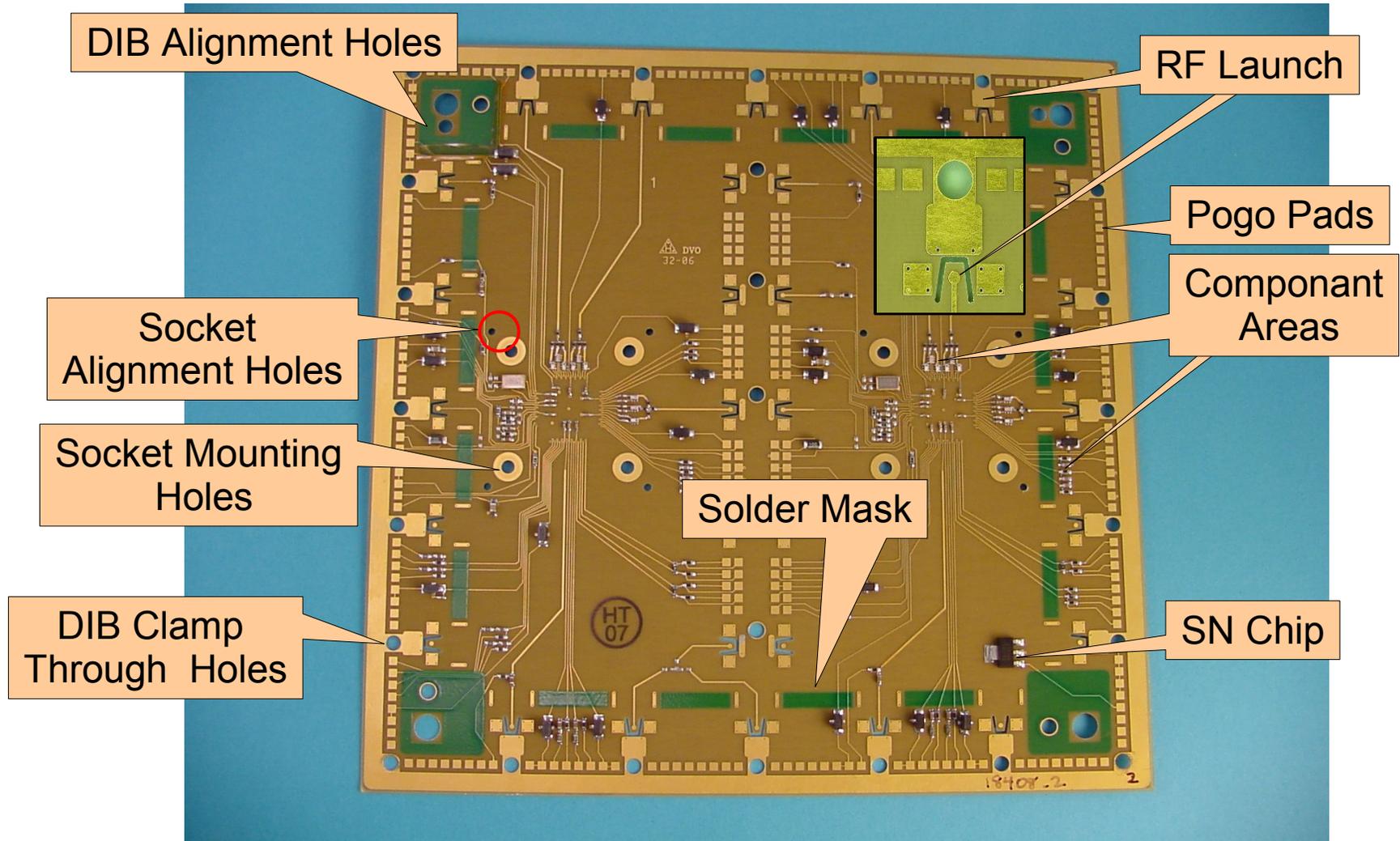


Fixture Layers Graphical Representation



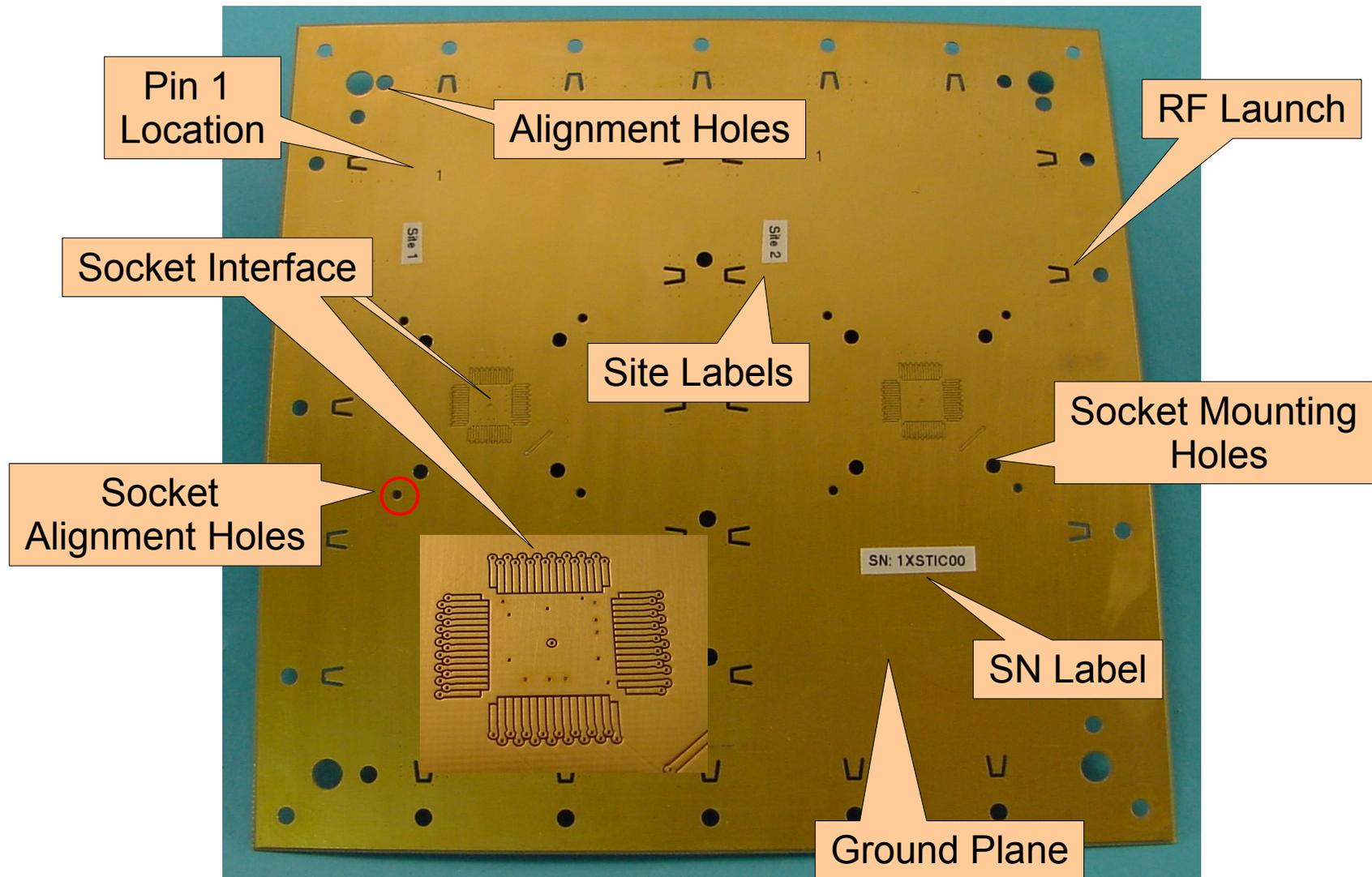


DIB Features (Bottom Side)





DIB Features (TOP Side)





Fixture Layers Graphical Representation

