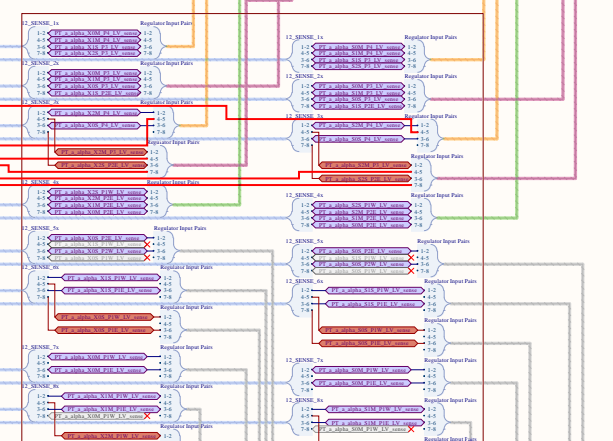
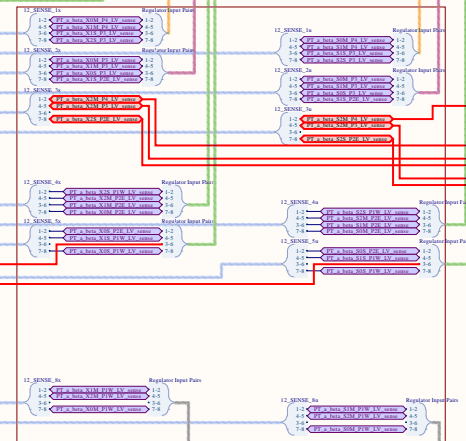
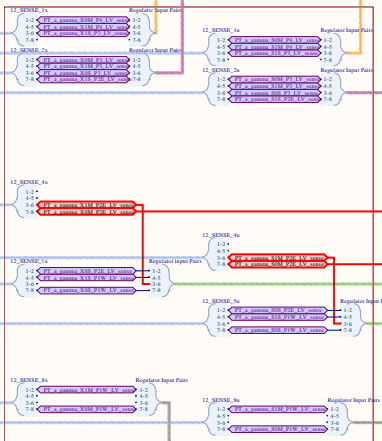


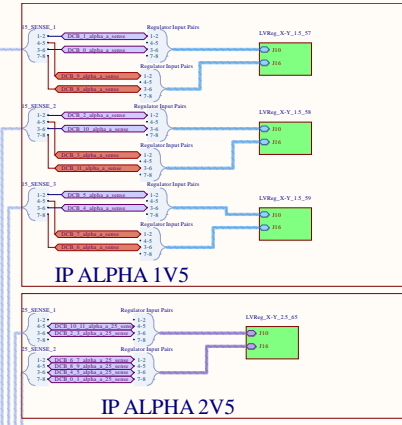
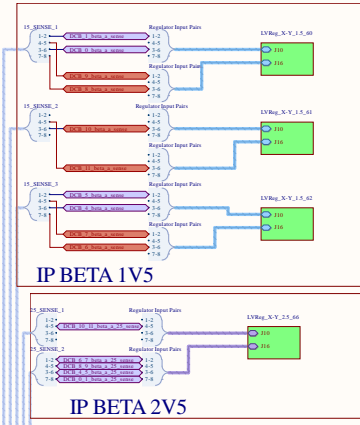
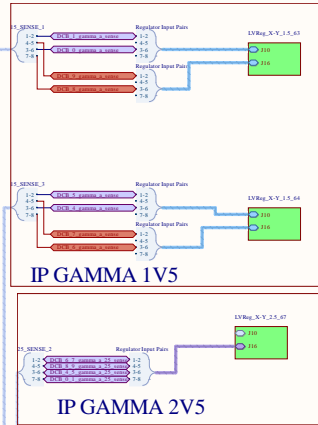
Power Group 4x & 4u

Power Group 3x & 3u

Power Group 2x & 2u



Power Group 1x & 1u



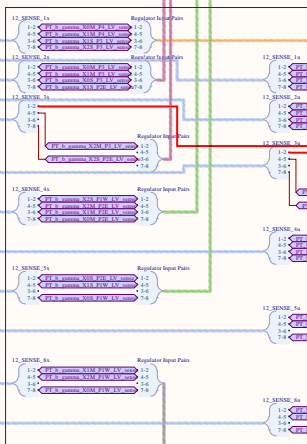
This document intended as proposal for 21-4 pair cable sense line scheme. Regulator inputs here should match those on PEPI_a_SIDE_g3

Rev	Number	Revision
1	01	Initial

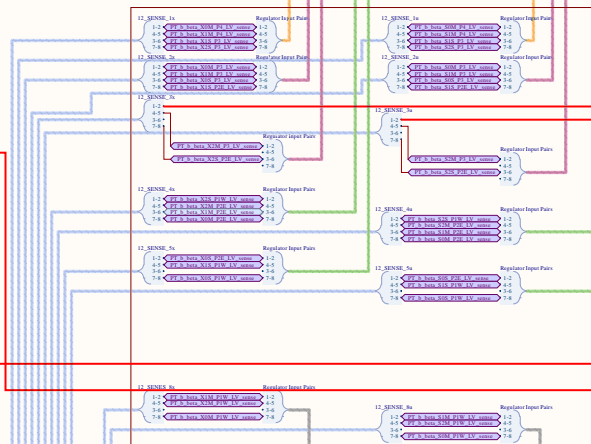
Power Group 4x & 4u

Power Group 3x & 3u

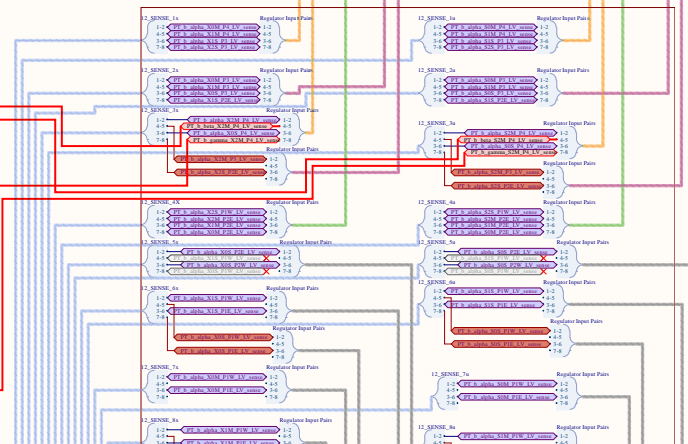
Power Group 2x & 2u



MAGNET GAMMA STAVES

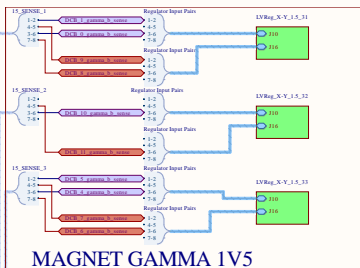


MAGNET BETA STAVES



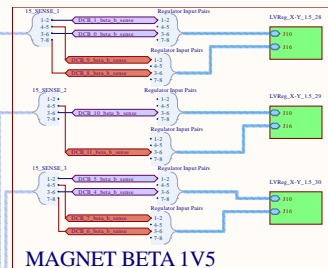
MAGNET ALPHA STAVES

Power Group 1x & 1u



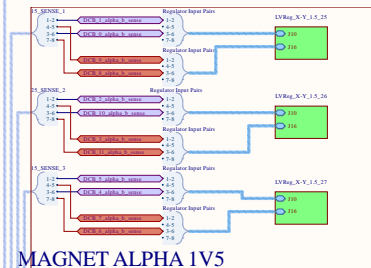
MAGNET GAMMA 1V5

MAGNET GAMMA 2V5



MAGNET BETA 1V5

MAGNET BETA 2V5



MAGNET ALPHA 1V5

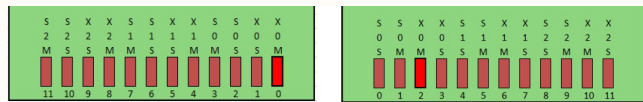
MAGNET ALPHA 2V5

This document intended as proposal for 21-4-pair cable sense line scheme. Regulator inputs here should match those on PEPI_b_SIDE_g3

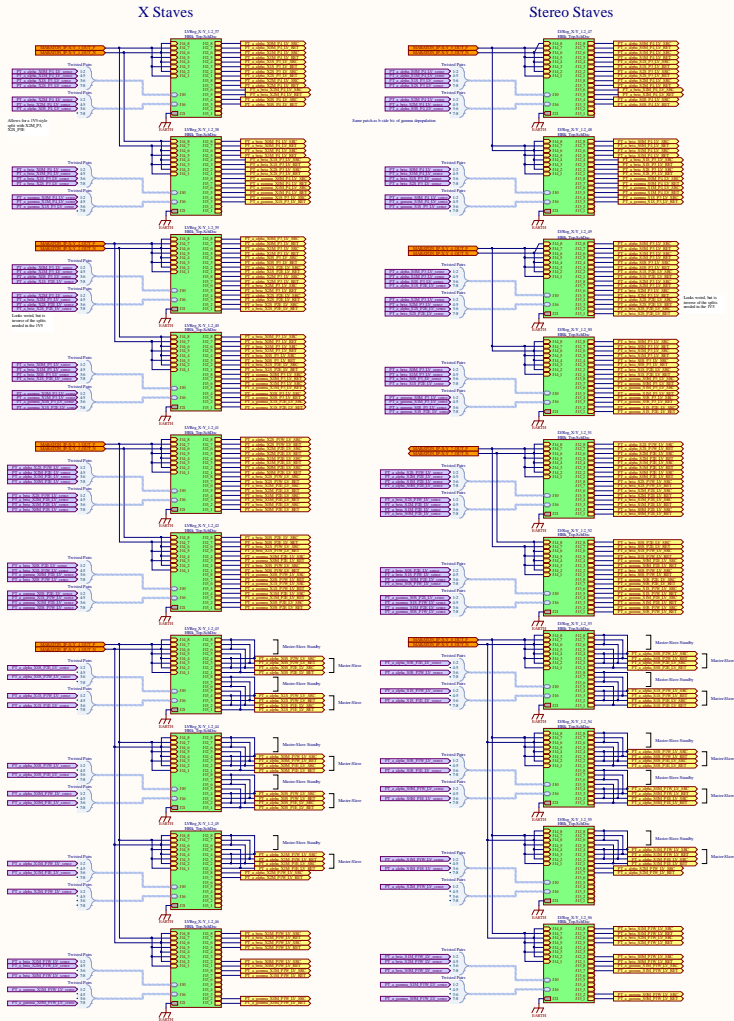
Rev	Number	Revision
01	01	01
02	02	02
03	03	03
04	04	04
05	05	05
06	06	06
07	07	07
08	08	08
09	09	09
10	10	10
11	11	11
12	12	12

PEPI IP ("a" planes) power

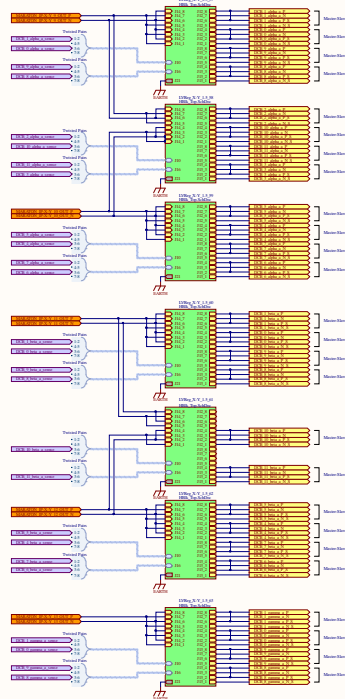
1.2 V Rail



The diagram on the left shows true-type, and the diagram on the right shows mirror-type. True-type

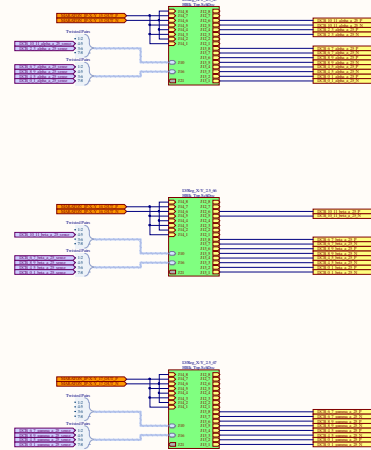


1.5 V Rail

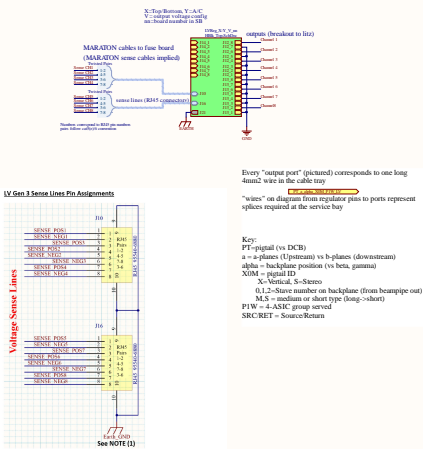


DCB 1.5V rails use Master-Slave current sharing.
Requires low-ohm X-splicing of Master and slave source wires for 50/50 sharing across non-matched cable

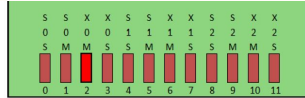
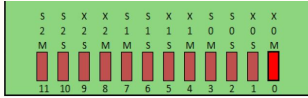
2.5V Rail



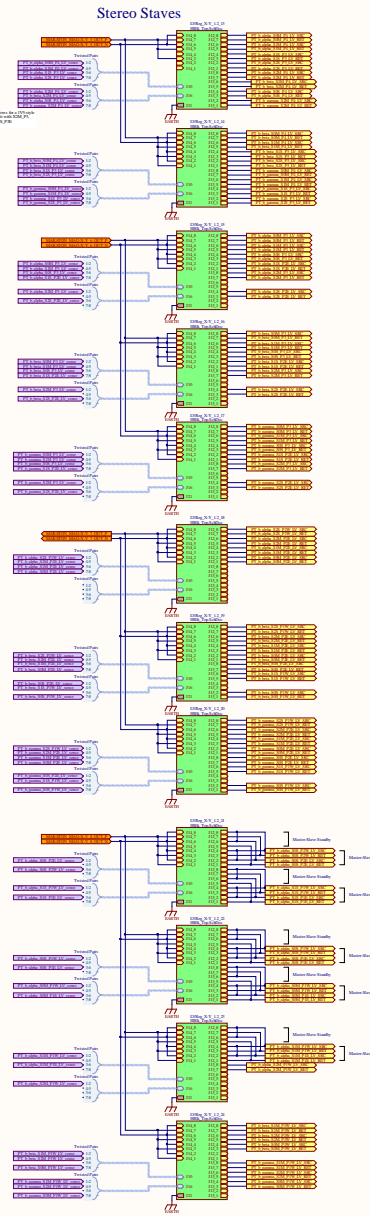
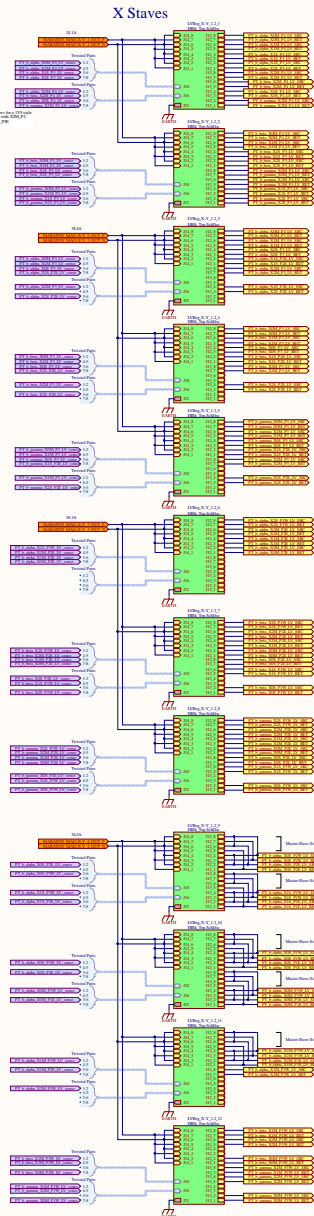
Key/Notes



PEPI Magnet ("b" planes) power 1.2 V Rail

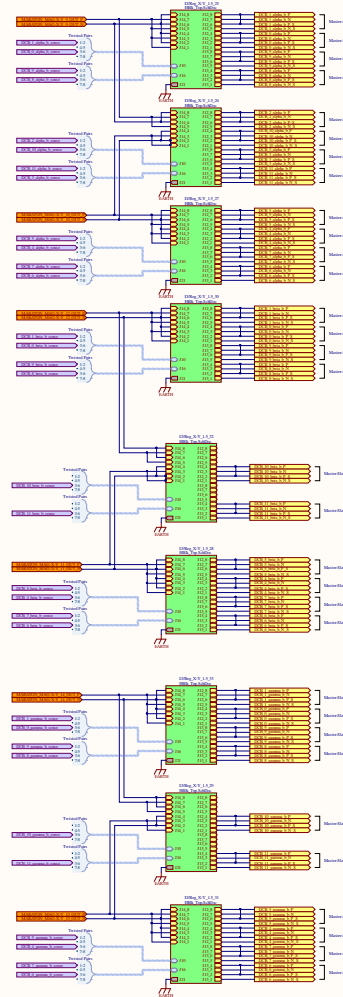


The diagram on the left shows true-type, and the diagram on the right shows mirror-type. True-type



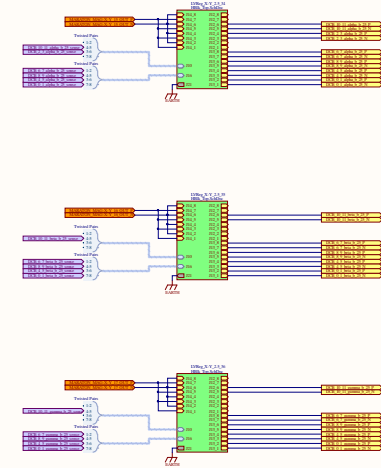
8-ASIC Hybrids powered by master-slave pairs with a second (redundant) master-slave pair on "standby"
Requires X-splice of Master and Slave Source lines and Y-splice of redundant pair outputs into primary pair outputs

1.5 V Rail

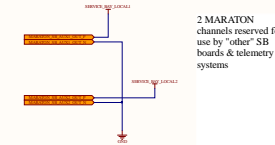


DCB 1.5V rails use Master-Slave current sharing.
Requires low-ohm X-splicing of Master and slave source wires for 50/50 sharing across non-matched cable

2.5V Rail

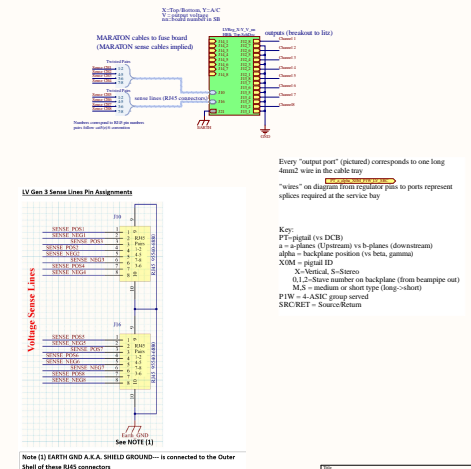


Rack Local Power (5V?)



2 MARATON channels reserved for use by "other" SB boards & telemetry systems

Key/Notes



Note (1) EARTH GND A.K.A. SHIELD GROUND— is connected to the Outer Shell of these RS45 connectors