

Run II Silicon Power

or

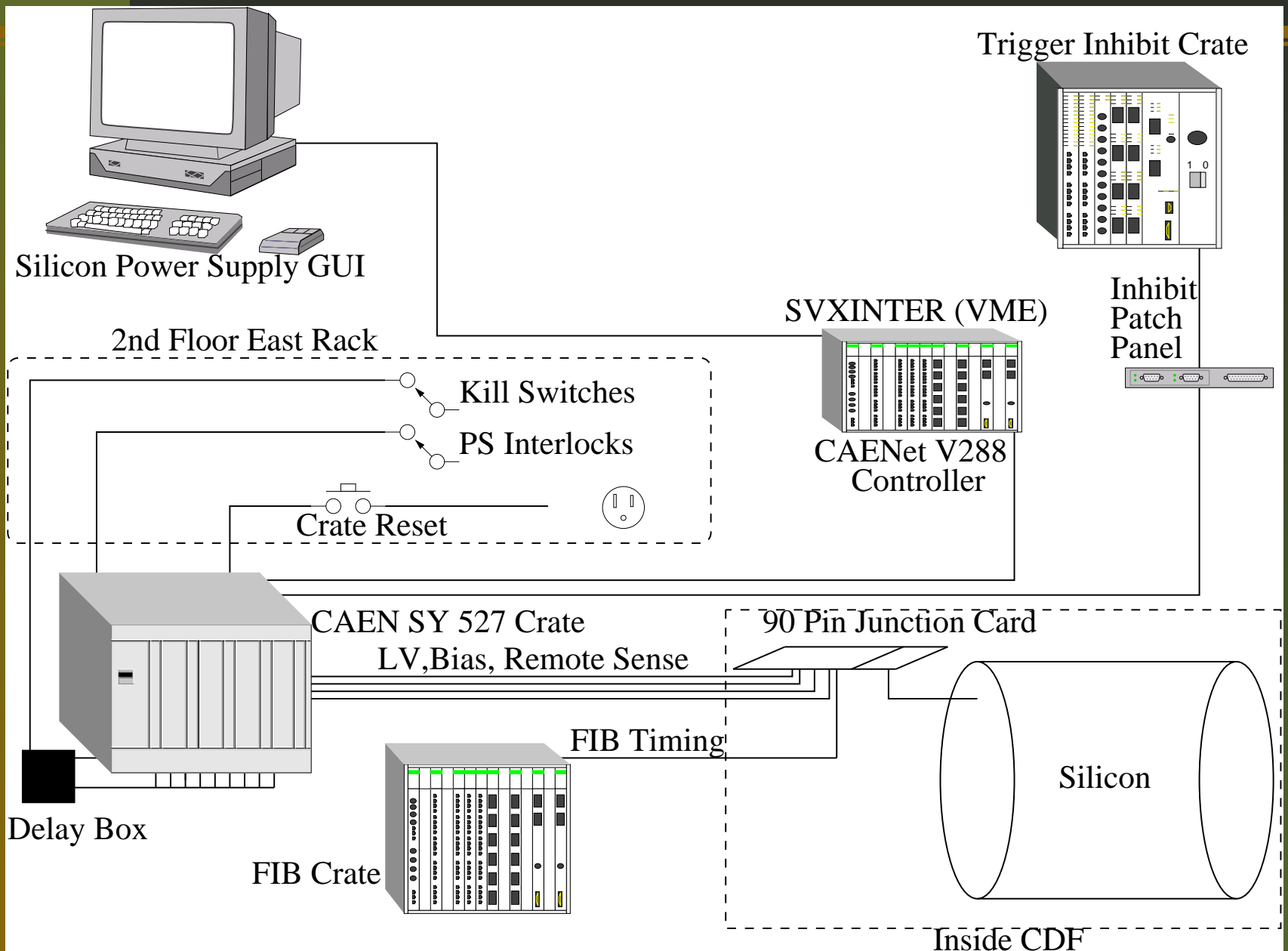
how I learned how to stop worrying and love CAEN

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Overview



CAEN Numbering Schemes

Crate	Reset Panel	PS Interlocks
Crate 1	SVX NW TOP 1	NW TOP TOP
Crate 2	SVX NW TOP 2	NW TOP BOT
Crate 3	SVX SW TOP 1	SW TOP TOP
Crate 4	SVX SW TOP 2	SW TOP BOT
Crate 5	SVX SW BOT 3	SW BOT TOP
Crate 6	SVX SW BOT 4	SW BOT BOT
Crate 7	SVX NW TOP 3	NW BOT TOP
Crate 8	SVX NW TOP 4	NW BOT BOT
Crate 9	SVX NE TOP 1	NE TOP TOP
Crate 10	SVX NE TOP 2	NE TOP BOT
Crate 11	SVX SE TOP 1	SE TOP TOP
Crate 12	SVX SE TOP 2	SE TOP BOT
Crate 13	SVX SE BOT 3	SE BOT TOP
Crate 14	SVX SE BOT 4	SE BOT BOT
Crate 15	SVX NE TOP 3	NE BOT TOP
Crate 16	SVX NE TOP 4	NE BOT BOT

The Modules: SVXII

MOD.A509

- 72 Supplies + 1 in CDF
- 5 layers
- 18 total channels
- 270 Watts
- Bias
 - $V_{Max}=250V$
 - $I_{Max}=5mA$

Current Voltages

Layer	Bias Max
0	170V
1	170V
2	60V
3	140V
4	60V

The Modules: L00

MOD.A509H

- 11 Supplies in CDF
- 15 total channels
- 200 Watts
- Bias
 - $V_{Max}=500V$
 - $I_{Max}: 3.6mA + 2.3mA$

Current Voltages

Layer	Bias Max
0	90V
1	90V
2	90V
3a	160V
3b	160V

The Modules: ISL

MOD.A510

- 30 Supplies in CDF
- 23 total channels
- 270 Watts
- Bias
 - $V_{Max}=250V$
 - $I_{Max}=5mA$
 - $VBIAS_LY\ 0..4 + VBIAS_ISL\ 0.4$

Current Voltages

Layer	Bias Max Forward	Central
0a,0b	60V	140V
1a,1b	140V	140V
2a,2b	60V	140V
3a,3b	140V	140V
4a,4b	60V	140V

Maintenance

- Spare Pool
 - A509 (SVXII): 4 Good spares + 1.
 - A509H (L00): 1 Good spare + 1.
 - A510 (ISL): 2 Good spares + 2.
- Code has been written to test unreliable supplies.
- B0 Trigger room test stand can be used for these tests.
- Very few failures over the past year.
- CAEN has trained people in PREP.