

STURM2 Motherboard

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STURM2 motherboard

- Board dimensions 10,9 X 12 inches
- 8 electrical layers
- Houses 192 amplifiers, 8 daughter cards, fermionics sensor and SCROD

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- 1 SMA connector for SCROD common clock
- 3 SMA connectors for debugging
- 1 SMA connector for fermionics sensor downbonds
- Two 6 pin power connectors

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- Board input voltage 5 volts
- 7 different operating voltages
 - 1,2 volts for SCROD
 - 1,8 volts for SCROD
 - 2,5 volts for SCROD and VPED
 - 3,3 volts for SCROD
 - 4 volts for amplifiers
 - 5 volts for daughter cards
 - Adjustable voltage for downbonds

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- Estimated power consumption 30 Watts
- For cooling the board has 4 large ground planes, 2 on top and 2 on bottom layer
- 4 ground test points