



Why Use "Generic" Hardware?

L2STT modules have many common requirements:

- o VME Interface, 9U form factor
- o Fast I/O (16 bits * 53MHz = 850 Mbits/sec)
- o Buffered readout to Level 3 / DAQ
- o CPU access for downloading and monitoring

L2STT modules will use 3 "generic" components:

- o 9U x 400mm VME motherboard
- o 3-channel LVDS link transmitter board
- o 3-channel LVDS link receiver board

Each module will have one large mezzanine board with custom processing and monitoring logic.

Other advantages of generic hardware:

- o Reduced overall engineering cost
- o Debug using "known good" platform
- o Easier maintenance, smaller spares inventory