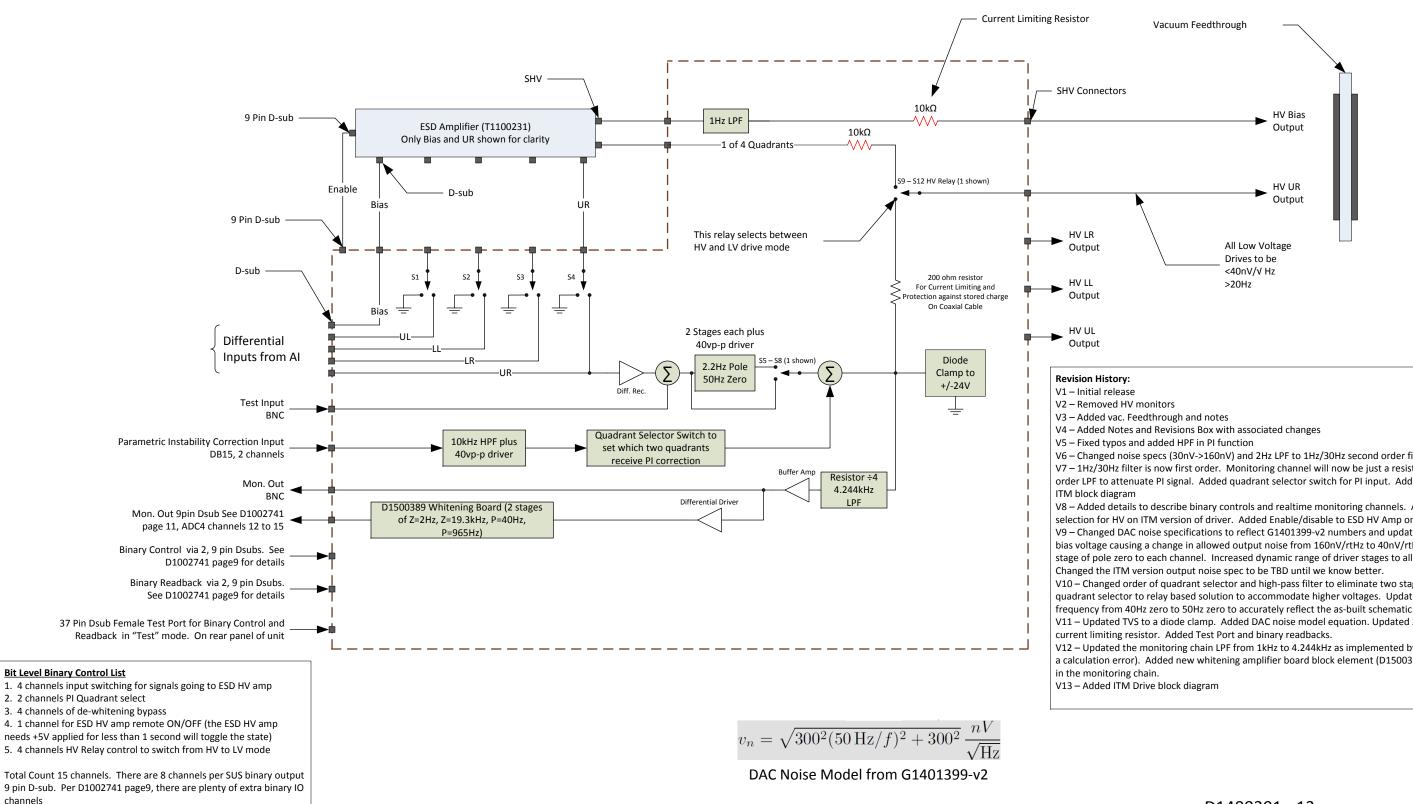
ETM ESD Low Voltage Driver and Monitor



V6 – Changed noise specs (30nV->160nV) and 2Hz LPF to 1Hz/30Hz second order filters cascaded V7 – 1Hz/30Hz filter is now first order. Monitoring channel will now be just a resistive divider and first order LPF to attenuate PI signal. Added quadrant selector switch for PI input. Added second sheet for

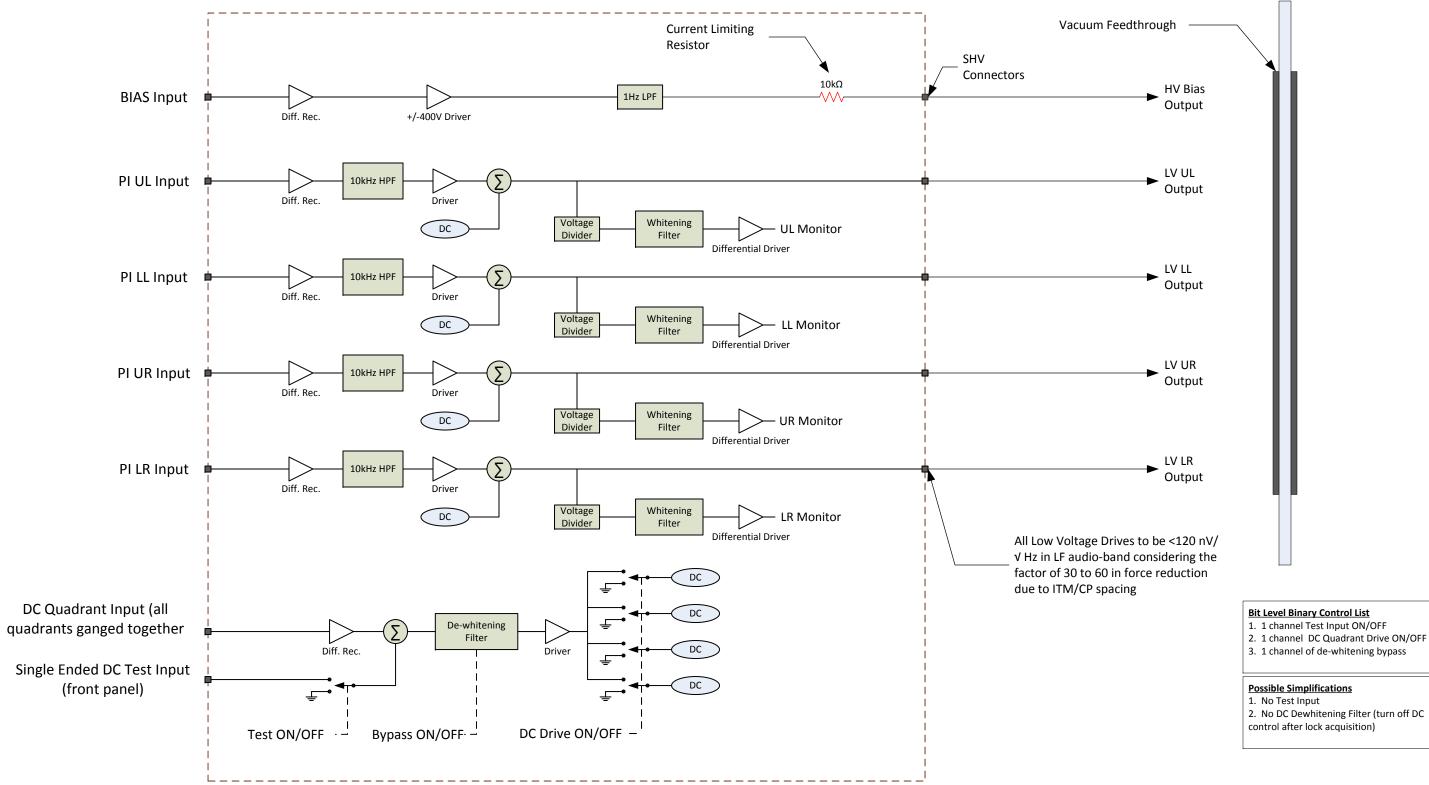
V8 – Added details to describe binary controls and realtime monitoring channels. Added polarity selection for HV on ITM version of driver. Added Enable/disable to ESD HV Amp on ETM version V9 - Changed DAC noise specifications to reflect G1401399-v2 numbers and updated the operational bias voltage causing a change in allowed output noise from 160nV/rtHz to 40nV/rtHz. Added another stage of pole zero to each channel. Increased dynamic range of driver stages to allow 40vp-p operation.

V10 - Changed order of quadrant selector and high-pass filter to eliminate two stages. Changed quadrant selector to relay based solution to accommodate higher voltages. Updated pole-zero

V11 – Updated TVS to a diode clamp. Added DAC noise model equation. Updated 200 ohm series

V12 – Updated the monitoring chain LPF from 1kHz to 4.244kHz as implemented by D1500443 (1kHz was a calculation error). Added new whitening amplifier board block element (D1500389) that was inserted

ITM ESD Low Voltage Driver



2. No DC Dewhitening Filter (turn off DC

D1400301-v13 R. Abbott, P. Fritschel, C. Adams