

Display Design Requirements to Support Functional Safety:

- Display Driver IC must have expanded diagnostics to support ISO26262 including:
 - ~~Ability to calculate CRC on input Video data~~
 - Ability to detect failures on LCD panel to determine health of display
 - i.e. Hsync/Vsync, DE, LVDS Clock, etc.
 - Ability to detect Over/Undervoltage condition to the Display Driver IC
- LED Driver IC must have expanded diagnostics to support ISO26262 including:
 - Ability to detect Open/Shorts on LED strings
 - Ability to detect Over/Undervoltage conditions to the LED strings
 - Ability to detect Over/Undervoltage condition to the LED Driver IC
- MCU should be ASIL B compliant
- Draft I2C Over LVDS Communication Spec to support Functional Safety (and “potential” for associated SPSS which will be used to further define expected display behavior, availability TBD)