

HEAD UP DISPLAY CONTROLLER

■ DESCRIPTIONS

The S2D13V40 is a warping correction controller IC specific to Head Up Display. It features an internal Surface Correction Engine which fixes visual distortions caused by non-linear display surfaces. It is also able to simultaneously perform other image manipulations such as rotation and scaling.

The S2D13V40 is qualified for automotive design including AEC-Q100/IATF16949 certification and comprehensive safety features.

The S2D13V40 can be easily inserted into existing system display architectures with minimal modifications required, making it an ideal solution for both existing and future designs.

■ FEATURES

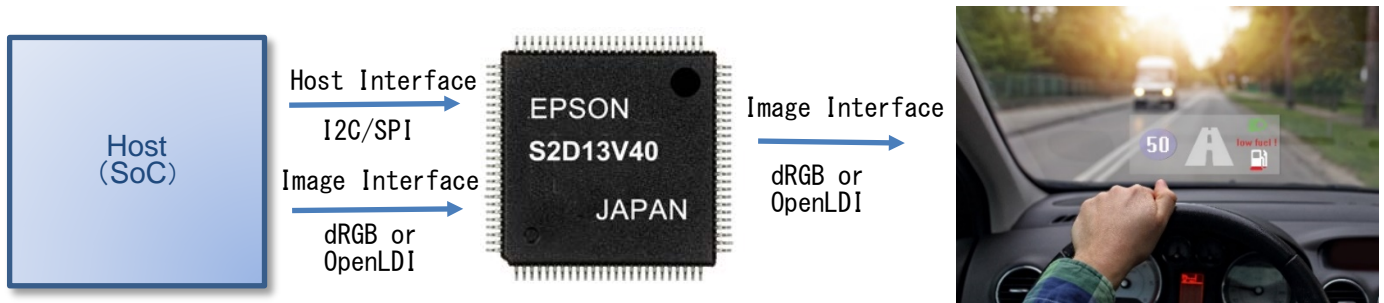
- ◆ Warping Correction specific to Head Up Display
- ◆ Rotation,Scaling
- ◆ Comprehensive Safety Features

■ OUTLINE SPECIFICATIONS

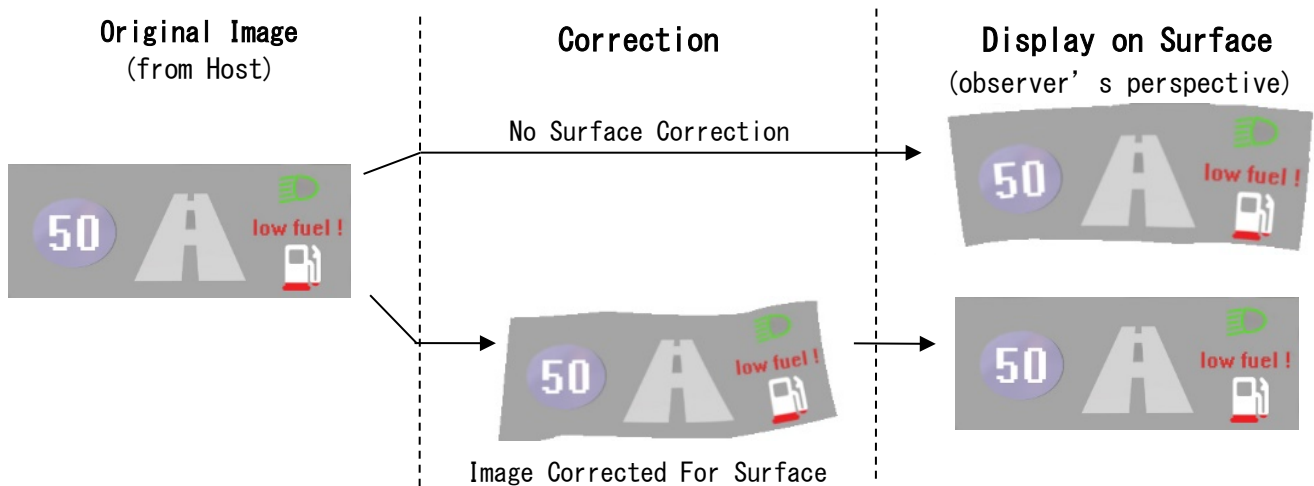
Part Number	S2D13V40
Power Supply	3.3V (I/O)
	1.8V (Internal)
Input Interface	Open LDI / dRGB (Selectable)
Output Interface	Open LDI / dRGB (Selectable)
Host Interface	SPI/I2C
Resolution	Up to 800x600 (24bit)
Safety Features	Comprehensive Safety Features
Automotive QA	AEC-Q100
Operating Temperature	- 40 ~ + 105°C
Miscellaneous	Internal PLL
	Internal SSCG
Package	QFP15-100PIN(P-LQFP100-1414-0.50)

S2D13V40

SYSTEM BLOCK DIAGRAM



ORIGINAL SURFACE CORRECTION ENGINE



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