

## Telltale Monitoring IC for Automotive Display System

### ■ DESCRIPTIONS

The S2D13V02 is a Telltale monitoring IC for Automotive Display System. When the S2D13V02 detects an abnormality in the telltale in the image streamed from the host, it notifies the host and performs display processing (overwriting of the telltale, etc.) as necessary. Even when the telltale is overlaid on an image whose background changes (map display, etc.), it is possible to set and detect the error judgment threshold from the viewpoint of visibility. The S2D13V02 supports the highly reliable display systems with a full range of display safety features, including this function.

The S2D13V02 is qualified for automotive design including AEC Q100/IATF16949 compliance and meets strict quality requirements for in-vehicle use.

### ■ FEATURES

#### ● Safety Features

Telltale Monitoring  
Telltale OSD (On Screen Display)  
Self Test Pattern Generator  
CID (Custom Image Display) etc.

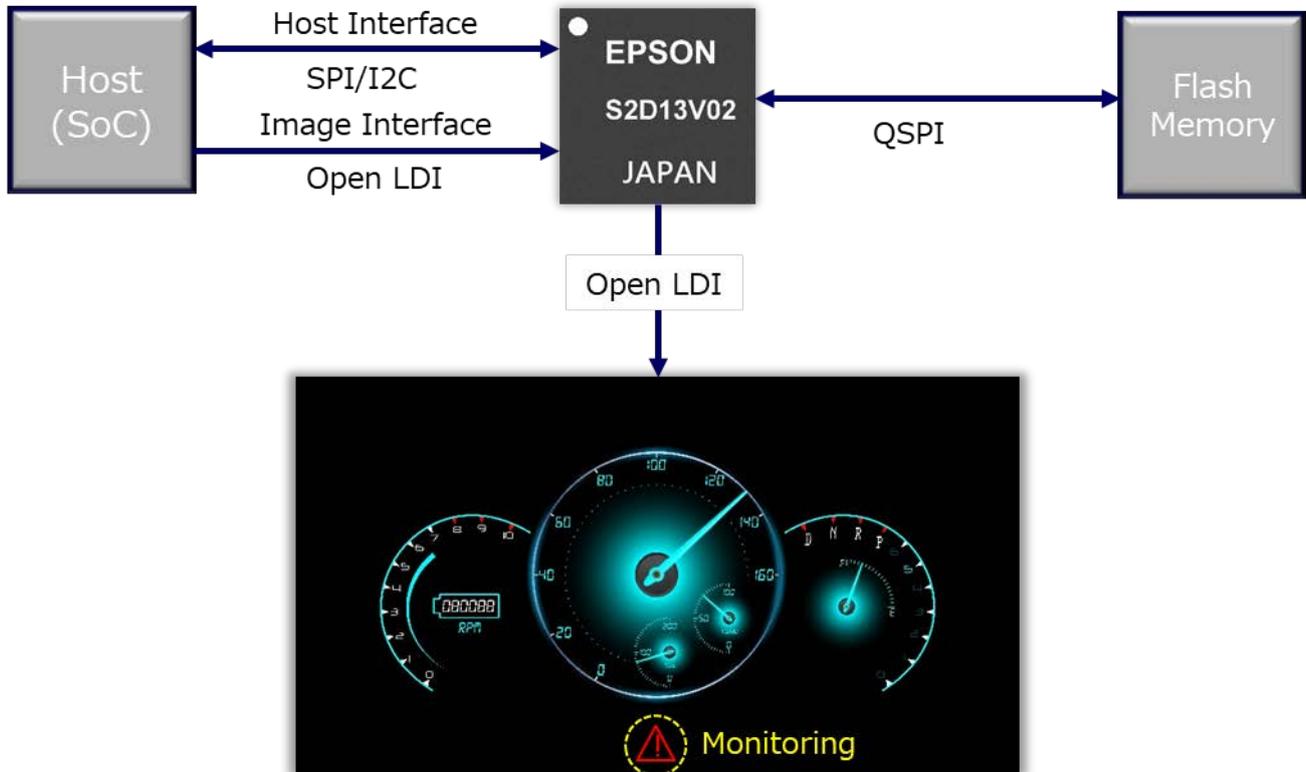
#### ● AEC Q100/IATF16949 Compliance

### ■ Outline Specifications

Power Supply	3.3V / 1.8V dual supply
Input Interface	Open LDI-Rx x 1ch (max 100MHz)
Output Interface	Open LDI-Tx x 1ch (max 100MHz)
Display resolution	up to 1920x720
Host Interface	I2C,SPI
Image Correction	8-bit Digital Gamma LUT + 2-bit Dithering
Safety Features	Telltale Monitoring
	Telltale OSD(On Screen Display)
	Self Test Pattern Generator
	CID (Custom Image Display) etc.
Automotive QA	AEC-Q100/IATF16949 qualifications Ta : -40 ~ 105°C
Others	External Flash Memory interface using QSPI
	OSD $\alpha$ -Blending
Package	PFBGA8-81(P-TFBGA-081-0808-0.80)

# S2D13V02

## System Block Diagram



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Sales & Marketing Division

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### Device Sales & Marketing Department

29th Floor, JR Shinjuku Miraina Tower, 4-1-6 Shinjuku,  
Shinjuku-ku, Tokyo 160-8801, Japan

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