

NVP2650D用于MIPI输入/输出汽车的2.5M CMOS传感器双ISP 摄像系统

产品名称	NVP2650D用于MIPI输入/输出汽车的2.5M CMOS传感器双ISP 摄像系统
公司名称	北京冠宇铭通科技有限责任公司
价格	1.00/个
规格参数	型号:NVP2650D 代理商:冠宇铭通 电话:18810894235
公司地址	北京市北京经济技术开发区科创十四街99号28幢 二层207室
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产品详情

APACHE2.9 DUAL is a dual CMOS sensor ISP (Image Signal Processor) for Automotive camera application. It includes fast 8 bits 8051 MCU to control ISP functions such as AE/AWB etc. APACHE2.9 DUAL can receive 4Lane MIPI-CSI2 CMOS sensor inputs. And it provides MIPI-CSI2 as output. APACHE2.9 DUAL image signal processor including 2A (AE/AWB) and enhancement functions gives the stable and high quality images which is suitable for automotive camera. It also provides many useful automotive camera functions such as defog, HDR, D-HDR, 2D-NR, HLC/BLC, privacy zone masking, block motion detection.

Features

Input Formats

- 2.5M pixel CMOS sensor Bayer input 1920x1280@

30fps

: 4 Lane MIPI-CSI2 Interface

Output Formats

- 4 Lane MIPI-CSI2 Interface

Embedded RISC Type Fast MCU

System Interface

- 16 bits timer including PWM

- SPI (2EA) / UART (2EA)

- Sensor I/F (I2C, 2EA)

Image Signal Processor

- 2 Auto (AE/AWB) control

- Enhanced 2D-NR

- Pre/Post-processor

- : D-HDR (Digital High Dynamic Range)

- : Live DPC & Static DPC

- : Black Level Compensation (Digital Clamp)

- : CI (Color Interpolation)

- : Sharpness Enhancer

- : LSC (Lens Shading Correction)

- : Y/C process (Sat./HUE/Cont./ Bright./Color

- Suppression)

- : Programmable RGB gamma correction

Various Automotive Camera Functions

- 2 types of HDR support

De-compressed / Compressed HDR

Line-interleaved HDR with a few line buffers

- Horizontal mirror

- DEFOG

- Motion Detection

- Privacy Zone Masking

Miscellaneous

- Built-in Input/Output test pattern generation

- Built-in Temperature Sensor

- Built-in eFuse

Operating Voltage

- 3.3V/1.8V (I/O)

- 1.2V (Internal, MIPI I/O)

Power Consumption

- T.B.D

Applications

- 2.5M CMOS sensor dual ISP for MIPI In/Out Automotive

Camera System

APACHE4

AutomotiveAEC-Q100 Qualified

ADAS Feature : PD, VD, LD & MODAdvanced 5MP Image Enhancer embeddedASIL-B Compliant

APACHE4 is a Pre-processor for automotive ADAS vision applications. With a dedicated sub-system of image processing accelerators and optimized software, APACHE4 drastically reduces main ECU ' s burden by as much as 70% and thus realizes time-sensitive ADAS computing.

APACHE4 provides advanced image processing IPs in a highly integrated manner. Its advanced ADAS algorithms deliver highly improved detection rate versus conventional vector-based classifiers.

Feature

Interface

Application

