

SPH-PCIe (4L-4C)

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Smart Portable HILS
4-Channel Camera with
PCI Express

What is

- The SPH-PCIe is an ADAS HIL simulation solution for electrical emulation of 4-Channel sensors and actuators. The SPH-PCIe consists of a SerDes, a signal generator programmed in FPGA and a PCI Express connected to the computer.
- SPH-PCIe is the world's first to implement simultaneous output of 4 UHD-cameras. It is the equipment that helps simulate ultra-high-capacity images acquired in 4-channels 8M cameras with PC.
- PCI Express (based on x8 lane, PCIe Gen 3) has a transfer rate per lane of +8GT/s and throughput of +7GB/s. It allows developers to simulate their algorithms on Windows-based PCs, and it provides the high-resolution images with no need for compression.

Highlights

- Super Speedy Interface : Quick preview available with Window PC
- High-Speed data serialization for 8 megapixel camera : UHD class resolution
- Excellent synchronizing Output Data (up to 4-channel) : Programmed in FPGA

Applications

- Autonomous vehicles / Autonomous Drones
 - Portable HILS 4-Channel camera
 - Solution for ADAS/AD camera
 - Windows-based simulation on PC

Technical Details

| | | |
|-------------|---------------------|--|
| Input Power | 12V (Power Supply) | |
| Interface | PCI Express | Based on x8 lane, PCIe Gen3) Transfer rate per lane : +8GT/s Throughput : +7GB/s |
| | DATA-OUT | MAX96717(GMSL) X 4 Coax type output 3Gbps or 6Gbps Serial-Bit Rate |
| | Resolution | Maximum 8 mega pixel, 30FPS |
| | Pixel Format | YUV422 or 12-Bit Bayer / Output Bayer 12-Bit |
| Dimension | 200 X 120 X 20 (mm) | |



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