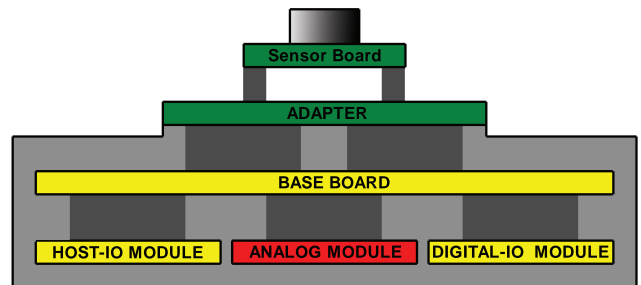


SCOOBY2 Test Platform for MIPI & SMIA Mobile Sensors



Summary

Scooby2 is the next generation modular test platform for evaluating performance of MIPI & SMIA compliant mobile sensors. Software compatible with previous generation of Scooby devices, it enables designers to start applications immediately.

Features

- Interface to 4-lane MIPI mobile sensors.
- Interface to SMIA mobile sensors.
- Real time processing with Xilinx Virtex-5 FPGA and ARM-9 RISC processor.
- On-board 2GB DDR Image Buffer
- External/Internal or PLL programmable Sensor Clock
- Multiple Programmable Voltage Power Supplies with built-in active and leakage current measurements.
- Support for Internal or External Power Supplies.
- Auto Calibration.
- Real-Time Protocol error checking.
- Complete SMIA compliant CCI interface with programmable: timing parameters, voltage levels and pull-up resistor values.
- Digital IO interface module with : I2C , SPI, RS232 and general IO signals.
- 800Mbps IEEE 1394b and 400Mbps USB2.0 Host PC interface.
- Scooby2 API software backward compatible with Scooby-1.6 API.
- New LUA real time scripting language support.

| Adapter Module | |
|--------------------------------|--|
| Sensor Socket | 32 pin generic adapter |
| MIPI CSI Rec. SMIA CCP Rec. | Virtex 5 FPGA core (1-4 lanes) |
| External Connectors | Analog power DC jack Digital power DC jack SMC clock connector VAUX 1-3 power connector |

| Baseboard | |
|----------------|--|
| Baseboard FPGA | Xilinx Virtex-5 with Rocket IO |
| Memory Buffer | 2GB Mobile DDR @ 200MHz |
| CPU | Atmel AT91SAM9RL64 210 MIPS at 190 MHz |

| Analog Module | |
|---------------|--------------------|
| Analog Power | 0.4V - 3.3V / 0.5A |
| Digital Power | 0.4V - 3.3V / 0.5A |
| VBAT | 2V-5.5V / 1A |
| VAUX Power | 1V-5.5V/ 0.5A |

| Digital IO Module | |
|--------------------------|--|
| FPGA | Xilinx Spartan 3E |
| Default IO Configuration | LVC MOS1.8V Interface signals |
| Support for | CCI Interface, I2C, SPI & generic IO interface |

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