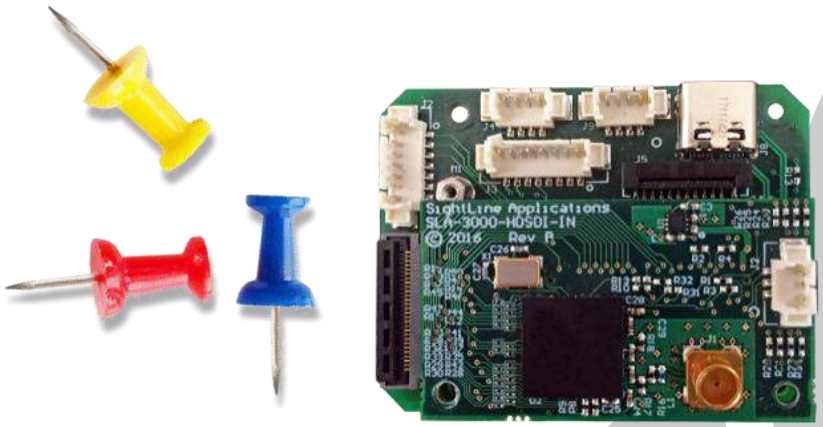
SightLine APPLICATIONS

4000-OEM

UHD Video Processing Platform

The **4000-OEM** is the next generation of SightLine video processor hardware. Smaller than the 3000-OEM, the new 4000-OEM supports Full HD performance and H.265 encoding.



Key Features:

- Full SightLine functionality on our most powerful processor
- Multiple digital video inputs:
  - Parallel digital inputs compatible with any 3000-OEM input adapter board
  - MIPI (with optional connection to 3000-OEM input adapter boards)
  - USB-3
- Multiple video outputs:
  - Ethernet streaming H.264 / H.265,
  - HDMI
  - HDSDI (soon with HDMI adapter board)
- Dual-Channel processing to 4K/30
- Built on Qualcomm Snapdragon processor / Smart Wireless Inforce 6601 SOM
- Multiple serial ports and GPIO for implementing system interfaces
- Onboard recording to µSD card
- Small SWaP: 50.5 x 38mm, 5W
- OEM and SOM integration options

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Specifications

Criteria	4000-OEM
Multi-camera	Switching between inputs, dual streaming, multi-channel displays (PiP, side by side)
Full Width Parallel Digital Inputs	TWO. Inputs are compatible with the full range of 3000/4000 camera adaptor boards. One input on the OEM (J6), second parallel digital via 4000-MIPI daughter board.
MIPI Inputs	ONE. This input is compatible with MIPI cameras (Vision Components VCIMX412, more in work). Also used to support the 4000-MIPI adaptor board, the 4000-STM which connects to the Sony ER8550 camera; and adaptor board for 4K HDMI inputs.
USB-3 Video Input	ONE. Compatible with UVC and USB-3 Camera Vision cameras to 4K
Digital Input - Cameras Supported (with adaptor boards)	HDSDI, HDMI, MIPI, USB-3, LVDS/VISCA, BT.656, BT.1120 See Camera Compatibility document.
Analog Inputs (NTSC/PAL)	TWO. When using two 3000-AB adaptors – one on OEM and one on MIPI adaptor.
Frame size and rate out	Two channels at 1080p @30 fps with full SW 4K @30 fps with encoding only 4K @ 15-25 fps with additional SW functions
Serial Ports Available	FIVE. 3.3V TTL. Additional 3 with 4000-MIPI adapter
Other IO	I^2C, GPIO (4). Additional 2 GPIO with 4000-MIPI adaptor
Ethernet Interface	10/100 BASE-T Ethernet PHY. UDP, TCP, and RTSP connectivity, unicast, multicast, with magnetic coupling
Encoded Video output with KLV	H.264/H.265 encoding, MPEG2 TS/RTP encapsulation. KLV to MISB standards
HDMI Output	Yes
HDSDI Output	In work, HDSDI out board in development (using HDMI out from OEM)
Analog Output	No
Size	2.0 x 1.5 inches (50.5 x 38mm) 0.45 ounces (13 grams)
Voltage In / Power consumption	8 - 15 VDC (12 VDC nom) 5 W avg (startup current 3A max per Smart Wireless Computing specification)
Environment – Temperature	Screened / Assured Performance: -20°C to + 55°C with delivered passive heatsink. Component rating: Smart Wireless Computing SOM: 0°C to +70°C. All other -40°C to +85°C Heater circuit in work for operations / -40°C start-up.
Recording	Micro SD. Class 10 SDHC cards up to 400 GB
Processor	Qualcomm Snapdragon 820
Fabrication Quality Assurance	Boards are assembled to IPC-A-610 Class2 specifications by facility certified to ISO 9001 and AS 9100 standards and using ROHS Directive 2011/65/EU compliant materials and processes

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