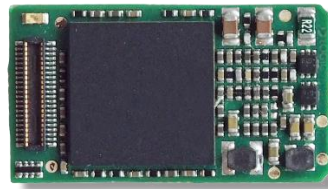




## Video Processing System-on-Module

The **1500-SOM** is the smallest form factor option to incorporate SightLine video processing functions into customer designs. The LogicPD Torpedo 3730 System-on-Module is a tiny, low power, on-board video solution ideal for a wide range of applications. Onboard processing is key for low latency performance and the best video quality.

Reference design support is provided to help customers integrate the SOM into their products – optimizing tight integration within any system with a simple IP agreement.



### Hardware

- Smallest Size: 15 mm x 27 mm
- LogicPD p/n: SOMDM3730-20-1780AGIR
- Power consumption: 2.25 W
- Multiple Video Inputs / Single Channel Processing
- Streamed Ethernet Video (to 720p)
- 3 Serial Ports + GPIO

### Video Processing Software

The **Video Processing Software** provides a suite of functions that are key in a wide variety of ISR applications. The processing software has two pricing tiers, SLE and SLA. SLE provides processing only and SLA processes the video with telemetry feedback. The SightLine software running on the 1500-SOM creates tailorable, powerful solutions.

*See the Video Processing Software sheet for more information about image processing functions.*

## Reference Design Support

### Support Package Provided

- Schematics and BOMs (OEM or EAB support)
- SightLine participation in customer design review

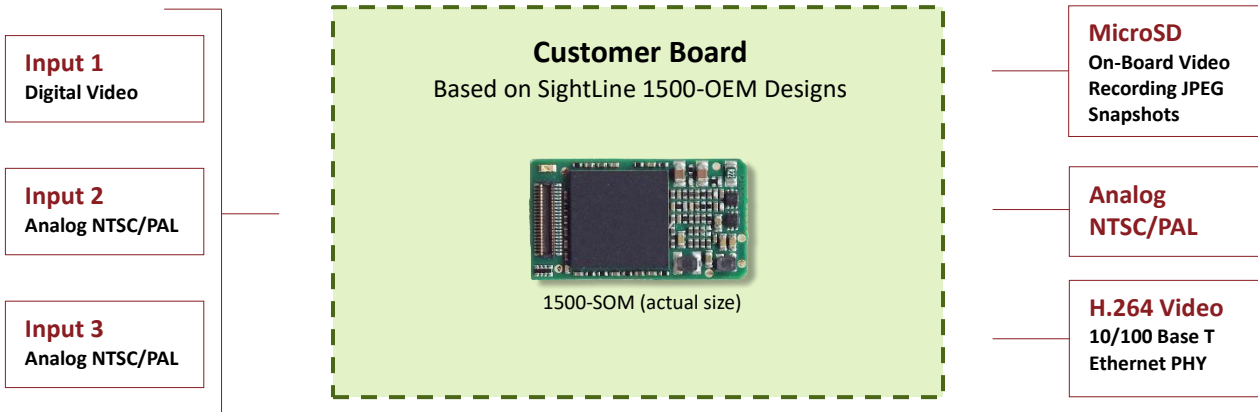
### SOM Interface Circuits

- 10/100 Ethernet (4 port switch design available)
- Multiple serial (control, telemetry, pass-through)
- Micro SD card interface

### Camera Interface Circuits

- Analog Video Converter
- FPGA digital video interface
- Camera interfaces for LVDS (block cameras), HDMI, Camera Link, FPC ribbon to range of parallel digital cameras (FLIR Tau, FLIR Boson, FLIR Quark, HRC, DRS Tamarisk, GS EO, etc.)

Switch for Single Channel Processing



**Command and Control Options**  
Serial (3) | GPIO (5) | I<sup>2</sup>C | Ethernet