



HD Video Processing Platform

The **3000-OEM** is a powerful multi-channel, high definition (HD) video processor well-suited for airborne and ground ISR applications. The board acts a solution to meet the demand for HD functionality. Onboard processing is key for low latency performance and the best video quality.



Hardware

- Full HD, true multi-channel processing
- Small size (business card footprint)
- SOM style, board-to-board Interface
- Multi-stream ethernet video (to 1080p/30) + HD out

Video Processing Software

The supported **Video Processing Software** provides a suite of video 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 and provides telemetry feedback. The SightLine software running on the 3000-OEM creates tailorable, powerful solutions

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

Camera Interfaces

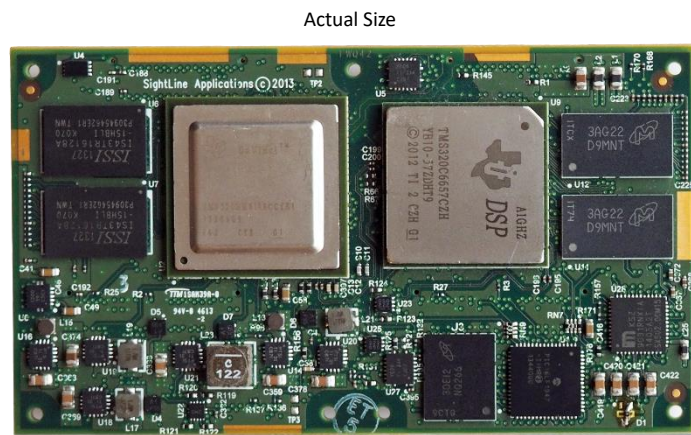
- Video Inputs**
 - Digital to 1080p/60 (2 identical inputs). Adaptors available for the following: Dual Analog, HDSDI, Sony FCB-EH6xxx, EH31xx, EV7xxx, Hitachi DI-SC120R, Tamron 10x, HDMI, Airborne 720p GS, Camera Link, FLIR Tau, FLIR Quark, FLIR Boson, DRS Tamarisk.
- Video Outputs**
 - Encoded Ethernet to 1080p/30. H.264 encoding, MPEG2 TS/RTP encapsulation. KLV to MISB standards 0102.10, 0601.7, 0603.2, 0604.3, and 0903.3
 - HD Digital - Adaptor to HDSDI Out
 - HDMI
 - SD analog (NTSC/PAL)

Specifications

- | | | | |
|------------------------------|---|---------------------------------|---|
| Ethernet Interface | <ul style="list-style-type: none"> 10/100 BASE-T Ethernet PHY with capacitive loading. UDP, TCP, and RTSP connectivity, unicast, multicast | Other Control Interfaces | <ul style="list-style-type: none"> Serial (5, 3.3 V) I²C (camera interfaces) GPIO |
| Operating Temperature | <ul style="list-style-type: none"> Demonstrated with basic heatsink: -40°C to +55°C. Components: -40°C to +85°C | Input Voltage | <ul style="list-style-type: none"> 8 - 15 VDC (12 VDC nom) |
| Size/Weight | <ul style="list-style-type: none"> 3.47 x 1.97 x 0.2 inches (88 x 50 x 6.25 mm) 1.4 ounces (39 grams) | Power Consumption | <ul style="list-style-type: none"> 10 W (typical) |
| Recording | <ul style="list-style-type: none"> Interface for external Micro SD card (and on available MAIN interface board). Class 10 SDHC cards up to 64 GB | | |

True Multi-Channel Processing

- Input 1 Digital Video
- Input 2 Digital Video



Actual Size

External MicroSD
On-Board Video
Recording JPEG
Snapshots

Digital Video Out

HDMI

Analog NTSC/PAL

H.264 Video
10/100 Base T Ethernet PHY

Command and Control Options
Serial (5) | GPIO (5) | I²C | Ethernet