



### Description

OptiSys-5101 is a high performance embedded vision system featuring four Camera Link image frame grabber ports. The Ports are configurable as either four base, two full or combination two base and one full port. Powered by an Intel Quad Core i7 processor, the small light weight system includes high capacity removable storage to maximize image data collection and streamline offload operations. A miniPCIe site allows additional application I/O customization. Packaged in a sturdy chassis, the OptiSys-5101 is US designed and manufactured and shipped fully tested and integrated including ready to run image analysis software. Inquire about a range of CPU, storage capacity and additional I/O options.

### Features

- Four speed configurable Camera Link ports
- Multi-terabyte front removable storage bay with a SATA III interface
- 4th Gen Intel® Quad Core™ i7 4700EQ, 2.3GHz CPU
- miniPCIe expansion site
- Ready to run image analysis software package options
- Additional I/O interfaces:
  - 1 x HDMI port
  - 2 x USB 2.0 ports
  - 2 x GigE RJ45 ports
- Camera frame rate sequence capture
- Triggered image sequence capture
- Camera integration & async reset control
- Windows & Linux compatible (32- & 64-bit)


### Benefits

- Haswell class CPU for high performance capture rate
- High capacity data storage enables thousands of HD images
- Supports up to 2 medium, full, or 10-tap camera link cameras
- Supports up to 4 base camera link cameras
- Customizable for your application

## Applications and Related Products

The OptiSys-5101 is suitable for image capture installations for a wide range of uses:

- Security and surveillance in air, land and sea applications
- Manufacturing for high speed inspection and data collection
- Airborne applications in agriculture, homeland security and traffic management
- Healthcare, image capture for multiple end uses
- Transportation security systems



- Small form factor chassis systems for a wide range of applications and environments
- Custom chassis designs to meet most usage requirements across a range of applications.
- A wide range of industrial displays for any environment
- Custom and off the shelf I/O cards supporting a variety of I/O recipes

**SFF**



## Specifications

### Environmental

Temperature:  
Operating Temp: -20°C to 55°C  
Non-Operating Temp: -40°C to +85°C  
Operating shock: 40 g / 11 ms half sign  
Operating vibration: 2 gs from 5 to 500 Hz  
Humidity: 5 to 95%, non-condensing

### Physical

Dimensions: 127 mm H (incl. feet) x 160 mm W x 210 mm D  
(5.0" H x 6.3" W x 8.3" D)  
Various mounting options  
Weight: 5.5 lbs (2.5 kgs)  
Sturdy sheet metal chassis  
Forced air cooling  
RJ45, USB, MDR connectors, HDMI, drive bay, power LED

### I/O Connections

4 x Camera Link ports MDR ports  
1 x HDMI  
2 x USB 2.0 ports  
2 x GigE RJ45 ports

### Power

14 - 36 VDC input voltage  
150 W power supply

## Order Information

### Model number: IPS-51F-01

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