

Application Note: Hardware Selection for AVT GigE Cameras

This document was generated to identify third party hardware components tested with GigE Vision Cameras from Allied Vision Technologies. This is not a complete list of all compatible products, only a list of products that have been tested.

GigE Host Adapter Cards

The host Ethernet card is the most critical system component, and for maximum performance we highly recommend using one of the following PCI/PCI-E cards:

Manufacturer	Model	PCI-32	PCI-E x 1	PCI-E x 4
Intel	Intel Pro 1000 GT	<input checked="" type="checkbox"/>		
Intel	Intel Pro 1000 PT		<input checked="" type="checkbox"/>	
Intel	Intel CT		<input checked="" type="checkbox"/>	
Intel	Intel Pro 1000 PT, dual port			<input checked="" type="checkbox"/>
Intel	Intel ET2 Server, quad port			<input checked="" type="checkbox"/>
Intel	Intel i340-T4 Server, quad port			<input checked="" type="checkbox"/>

The following Intel cards have performance issues and are **NOT** recommended:

- Intel Pro ET Server, Quad
- Intel Pro 1000 MT
- Intel Pro 1000 PT, Quad. This card lacks Win7 support. For a full list of which Intel cards are supported in Win7 see <http://www.intel.com/support/network/sb/CS-030613.htm>

GigE Switches

We recommend that you work with manufacturers to select switches to satisfy your requirements. It is not possible to test a majority of new and existing GigE switches. The primary consideration when selecting a switch should be system capacity. These include things like: RAM, flash memory, packet buffer memory, switch fabric speed, switching capacity and maximum bandwidth in packets per second.

Manufacturer	Model	Number of Ports
Advantech	EKI-2725	5
Linksys	SD2005	5

SMC	SMCGS8	8
SMC	SMC8508T	8
Dell	PowerConnect 28**	*8
Linksys	SRW2008	*8

*24 port available

GigE PCMCIA cards for laptops

Manufacturer	Model
U.S. Robotics	7903
LinkSys	PCM1000
TRENDnet	TEG-PCBUSR
Sonnetech	PRESTO GIGABIT ETHERNET PRO EXPRESSCARD

GigE Media Converter (Copper to fiber adapters)

Manufacturer	Model
Omnitron Systems Technology Inc.	FlexPoint GX, Gigabit Media Converter 1000BaseT – 1000BaseSx MM/LC 850 nm 220 m
Aaxeon	Optolinx – FCU-3002SC, MM/SC

Laptop models that support GigE adapters

The following laptops are known to be offered with onboard Gigabit Ethernet adapters that support jumbo frames of > 8000 MTU.

Manufacturer	Model
Apple	Macbook Pro

10 GigE Host Adapter Cards

The following adapter is recommended for 10Gb link over SFP+ direct attach passive copper cable.

Manufacturer	Model	PCI-E x 1	PCI-E x 4	PCI-E x 8
Intel	Intel X520-DA2			<input checked="" type="checkbox"/>

10 GigE Switches

The following switch is recommended for 10Gb link over SFP+ direct attach passive copper cable.

Manufacturer	Model	Number of Ports
Netgear	ProSafe GSM7328Sv2	24

POE Components

GigE Host Adapter POE Cards

Manufacturer	Model	PCI-E x 1	PCI-E x 4	PCI-E x 8
Adlink	GIE62+, dual port		<input checked="" type="checkbox"/>	
Adlink	GIE64+, quad port			<input checked="" type="checkbox"/>

GigE Switches with POE support

Manufacturer	Model
HP Networking	NJ2000G IntelliJack Switch
HP Networking	V1905-10G-PoE Switch
Cisco	SRW-2008 MP
Allied Telesys	AT-GS950/8 PoE

GigE POE Modules

Manufacturer	Model
Microsemi - PowerDsine	Injector → PD-7001G/AC Splitter → PD-AS-701/12
Phihong	Injector → PoE20U-560(G)
Phihong	Injector → PoE36U-1AT-R

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