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	☑		
Intel	Intel Pro 1000 PT		☑	
Intel	Intel CT		☑	
Intel	Intel Pro 1000 PT, dual port			☑
Intel	Intel ET2 Server, quad port			☑
Intel	Intel i340-T4 Server, quad port			☑

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

Manufacturer	Model	Number of Ports	
Advantech	EKI-2725	5	
Linksys	SD2005	5	*24 port versions available
SMC	SMCGS8	8	
SMC	SMC8508T	8	
Dell	PowerConnect	*8	
Linksys	SRW2008	*8	

GigE PCMCIA cards for laptops

Manufacturer	Model
U.S. Robotics	7903
LinkSys	PCM1000
TRENDnet	TEG-PCBUSR
Sonnettech	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

POE Components

GigE Host Adapter POE Cards

Manufacturer	Model	PCI-E x 4
Adlink	GIE62+, dual port	☑

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

We invite comments or suggestions on this document at any time.
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