

Digital interface comparison list

	IEEE1394	Gig-E Vision	Camera Link	Analog Multi Connector
Data transmission	Serial	Serial	Combined Serial with Parallel	Analog
Performance	a : < 400M bps b : < 800M bps	< 1000M bps	Base Conf. : < 2380M bps Medium Conf. : < 4760M bps Full Conf. : < 7140M bps (Continuous Mode)	-
for Image data	approx. 512M bps	approx. 800M bps		
Cable Distance	< 4.5m	< 100m	< 10m	approx. 50m
with Hub	72m	non limit	x	x
with Fiber	200m	non limit	x	x
One cable solution	Yes (*1)	No	Yes (PoCL only)	Yes
Trigger Input on the Interface	b : Hardware (*1) a & b : Software	Software	Hardware	Hardware
Power supply on the Interface	Yes	No	PoCL : Yes miniCL & CL : No	Yes
Scalability max.no. of devices	a : 16 b : 63	Unlimited (*2)	1 or 2	1 ~ 4
PC Interface	PCI/PCMCIA card or Motherboard	Network Interface Card or Motherboard	PCI frame grabber	PCI frame grabber
Image guarantee	Isochronous transfer	non guarantee	Direct connection, Real time	Direct connection, Real time
Software	Many SDK in the market.	We wait standardization SDK.	from grabber maker	from grabber maker
System Figure (Example)	<p>200M bps 400M bps 200M bps guarantee for image</p> <p>Image & Control Image Control Trigger Power</p>	<p>non guarantee non guarantee non guarantee guarantee for all data</p> <p>Image & Control Image Control Trigger Power</p>	<p>grabber 1 Port 1 grabber 1 Port 2 grabber 2 Port 1 Power Over Camera Link</p> <p>Image & Control Image Control Trigger Power</p>	<p>Remarks</p> <p>*1 : IEEE1394b only, Hitachi own (non standard)</p> <p>*2 : The image response is a non guarantee.</p>