

# ARC-11XX and ARC-12XX series Compatibility Matrix

## As of 1-16-2006

This is a list of mainboard manufacturers compiled by Areca. This list represents mainboard that Areca has tested and certified these companies' products model. If it is not on this list, please contact the manufacture directly for information regarding compatibility of specific mainboard model. If you manufacture server mainboard with PCI-X or PCI-Express and are interested in being part of this list, please send an e-mail to support@areca.com.tw If you have problem in any mainboard, please try the manufacture latest BIOS.

### **Motherboard Compatibility**

Brand	Model Name	Chipset	BIOS	PCI Slot	CPU
ABIT	WI-1P	Intel 875P/6300ESB	12.B02	PCI-X 64bit/66MHz	Intel P4
ABIT	SI-2P+	Intel E7501		PCI-X 64bit/133MHz	Intel Xeon
ABIT	WI-2P	Intel E7505/82870P2		PCI-X 64bit/100MHz	Intel Xeon
ABIT	KV8-MAX3	VIA K8T800	1.33	PCI-33	AMD Athon
Aopen	DXPN-U	Intel E7505	1.05	PCI-X 64bit/100MHz	Intel Xeon
ASUS	P5-CRL	Intel E7221/ICH6	Tested by Customer	PCI-X 64bit/66MHz	Intel 775
ASUS	PSCH-L *2	Intel E7210/6300ESB	017	PCI-X 64bit/66MHz	Intel P4
ASUS	PP-DLW	Intel E7505 / P64H2	08.00.08	PCI-X 64bit/133MHz	Intel Xeon
ASUS	PR-DLS533/2GBL	ServerWorks GC-LE / CSB5 + CIOB	1010	PCI-X 64bit/133MHz	Intel Xeon
ASUS	PRL-DLS533	ServerWorks GC-SL / CSB6 CIOB-X2	1004	PCI-X 64bit/100MHz	Intel Xeon
ASUS	PU-DLS/533	Intel 7501 / ICH3 + P64H2	1007	PCI-X 64bit/100MHz	Intel Xeon
ASUS	P4P800SE	Intel 865	1004	PCI-33	Intel P4
Dell	PowerEdge 1600sc	ServerWorks GC-SL		PCI-X 64bit/100MHz	Intel Xeon
Dell	precision 650	INTEL7505	Tested by Customer	PCI-X 64bit/100MHz	Intel Xeon
Dell	Precision 670	INTEL7525	Tested by Customer	PCI-X 64bit/100MHz	Intel Xeon
Dell	2850	INTEL7520	Tested by Customer	PCI-X 64bit/133MHz PCI-X 64bit/100MHz	Intel Xeon
HP	xw9300*1	Nvidia nForce Professional+AMD 8131	Tested by Customer	PCI-X 64bit/133MHz PCI-X 64bit/100MHz PCI-Express x16(SLI)	AMD Opteron
HP	xw6200*1	INTEL7525	Tested by Customer	PCI-X 64bit/133MHz PCI-X 64bit/100MHz PCI-Express x8	Intel Xeon
HP	XW6200*1	INTEL7525	Tested by Customer	PCI-E X8	Intel Xeon
Intel	SE7525GP2 *3	Intel E7525 / 6300ESB	P05/07	PCI-E X4(X8 Conn.)/X16 PCI/X-66	Intel Xeon
Intel	Intel SE7230NH1	Intel E7230/ICH6R	Tested by Customer	PCI-E x4(X8 conn.),	Intel P4
Intel	Intel SE7210TP1-E	Intel E7210/6300ESB	Tested by Customer	PCI-X 64bit/66MHz	Intel P4
Intel	SE7320SP2 *3	Intel E7525 / 6300ESB	P05/P07	PCI-E x4(X8 conn.), PCI/X-66	Intel Xeon
Intel	SE7520BD2 *3	Intel E7520/ICH5-R	P05/P07	PCI-E x8/x4(X8 Conn.), PCI/X-100/133MHz	Intel Xeon
Iwill	X2	Intel E7525 / 80001ESB	1.01	PCI-Express x8	Intel Xeon
Iwill	DNS-L	Intel E7520/ICH5	V1.0	PCI-Express x8	Intel Xeon
Iwill	DN800-L	Intel E7525/6300ESB	V1.04	PCI-Express x8/x16,	Intel Xeon
Iwill	DK8S2	AMD 8000 Series	Tested by Customer	PCI-Express x8/x16,	Opteron

\*1. Update latest BIOS xw9300 to (1.29),xw8200 to (?) and xw6300 to(?) can solve the problem . Update controller firmware to 1.39 also solve it.

\*2. This motherboard doesn't support install FreeBSD 5.2.1 from floppy

\*3. Both motherboard don't support in the BIOS P06

## Motherboard Compatibility-1

Brand	Model Name	Chipset	BIOS	PCI Slot	CPU
MSI	MS-9620	nForce 4 Pro	Tested by MSI	PCI 32bit/32MHz PCI-Expressx16	AMD Opteron
SuperMicro	P4SCT	Intel 875P	Tested by Customer	PCI-X 64bit/66MHz	Intel P4
SuperMicro	X5DP8-G2	Intel E7500	Tested by Customer	PCI-X 64bit/133MHz	Intel Xeon
SuperMicro	X5DP8-G2	Intel E7500	Tested by Customer	PCI-X 64bit/133MHz	Intel Xeon
SuperMicro	X5DA8	Intel E7505	1.2B	PCI-X 64bit/133MHz	Intel Xeon
SuperMicro	X5DMS-8GM	Intel E7501	Tested by Customer	PCI-X 64bit/133MHz	Intel Xeon
SuperMicro	X6AT-G	Intel E7525	Tested by Customer	PCI-X 64bit/66MHz PCI-Express X16 PCI-Express x8	Intel Xeon
SuperMicro	X6DH8-G2	Intel E7520	Tested by SuperMicro	PCI-X 64bit/133MHz PCI-X 64bit/100MHz PCI-Express x4	Intel Xeon
SuperMicro	X6DH8-XG2	Intel E7520	Tested by Customer(PTLID-6-40000)	PCI-X 64bit/133MHz PCI-X 64bit/100MHz PCI-Express x4	Intel Xeon
SuperMicro	X6DH8-XB	Intel E7520	Tested by SuperMicro	PCI-X 64bit/133MHz PCI-X 64bit/100MHz PCI-Express x16	Intel Xeon
SuperMicro	X6DHE-XG2 *4	Intel E7520	Tested by SuperMicro	PCI-X 64bit/133MHz PCI-X 64bit/100MHz PCI-Express x8	Intel Xeon
SuperMicro	X6DHE-G2	Intel E7520	1.3c Tested by Customer	PCI-X 64bit/133MHz PCI-X 64bit/100MHz PCI-Express x8	Intel Xeon
SuperMicro	X6DAL-TG	Intel E7525	Tested by SuperMicro	PCI-X 64bit/66MHz PCI-Express x16/x8	Intel Xeon
SuperMicro	X6DP8-TB2	Intel E7525	Tested by SuperMicro	PCI-X 64bit/66MHz PCI-Expressx16	Intel Xeon
SuperMicro	X6DVA-4G	Intel E7320	1.0C	PCI-X 64bit/133MHz PCI-E X4(X8 Conn.)	Intel Xeon
SuperMicro	X6DVA-EG	Intel E7320	1.0C	PCI-X 64bit/133MHz PCI-E X4(X8 Conn.)	Intel Xeon
SuperMicro	X6DHT-A	Intel E7520	LTD 6.00 08/13/20	PCI-X 64bit/133MHz PCI-E X8	Intel Xeon
Tyan	S2466N-4M	AMD 760 MPX	(4.06Tested by customer)	2 * PCI 64bit/66MHz	AMD Athlon MP
Tyan	S5112 *5	Intel E7210/6300ESB	1.00	PCI-X 64bit/66MHz	Intel P4
Tyan	S2722	Intel E7500	1.0	PCI-X 64bit/133MHz	Intel Xeon
Tyan	S2875	AMD 8000 Series	2.02	PCI-33	AMD Opteron
Tyan	S2735	Intel E7501	Tested by Customer	PCI-X 64bit/133MHz	Intel Xeon
Tyan	S2726	Intel E7501	2.02	PCI-X 64bit/133MHz	Intel Xeon
Tyan	S2721	Intel E7501	2.03	PCI-X 64bit/133MHz	Intel Xeon
Tyan	S2882	AMD 8000 Series	2.03	PCI-X 64bit/133MHz	AMD Opteron
Tyan	S2885	AMD 8000 Series	Tested by Customer	PCI-X 64bit/133MHz, PCI-X 64bit/100MHz	AMD Opteron
Tyan	S5350*6	Intel E7320/6300EB	1.04d	PCI-X 64bit/133MHz	Intel Xeon

\*4. The BIOS version after 1.2 (NOT include 1.2) all supports our controllers.

\*5. This motherboard needs to update the BIOS to support PCI-X under RedHat 9.0(2.4.20-8), FreeBSD 5.2.1

\*6. This motherboard doesn't support install FreeBSD 5.3 from floppy

## Motherboard Compatibility-2

Brand	Model Name	Chipset	BIOS	PCI Slot	CPU
Tyan	S2865G2NR	nForce 4/Ultra	Tested by Tyan	PCI 32bit/33MHz PCI-Expressx16	AMD Athon 64
Tyan	S2865AG2NRF	nForce 4/Ultra	Tested by Tyan	PCI 32bit/33MHz PCIe x16	AMD Athon 64
Tyan	S2892	Nvidia nForce Professional+AMD 8131	Tested by Tyan	PCI-X 64bit/133MHz PCI-X 64bit/100MHz PCIe x16, X4(SLI)	AMD Opteron
Tyan	S2895 *7	Nvidia nForce Professional+AMD 8131	Tested by Customer(2.01C)	PCI-X 64bit/133MHz PCI-X 64bit/100MHz PCIe x16(SLI)	AMD Opteron

\*7. The RAID controller needs to update the BIOS to version 1.36 or later.



## ARECA PCI-X & PCI-E TEST RESULT

PCI-X/MB	PDSG4/E	PDSLAE/E	PDSMi	PDSM4/E	PDSMP-8/I	H8DCE	H8DSP-8	H8DS8
Areca ARC1110	PASS *1	PASS *1	PASS *1		PASS *1			
Areca ARC1120		PASS *1	PASS *1	PASS *1				
Areca ARC1130		PASS *1	PASS *1		PASS *1			
<b>PCI-E/MB</b>								
Areca ARC1220	N/S *2	PASS *1	PASS *1	N/S *2	N/S *2			
Areca ARC1230	N/S *2	PASS *1	PASS *1	N/S *2	N/S *2	PASS *1	PASS *1	PASS *1

\*1. The "PASS" means we success load driver for windows 2003 SP1 and Red Hat Linux. Limited function has been tested

\*2. "N/S" means "Didn't support PCI-E X8".

## ***ARC-12XX(4/8/12/16 Ports) series SATA II RAID Adapter with SLI M/B Compatibility Matrix***

This is a list of mainboard manufacturers compiled by Areca. This list represents mainboard that Areca has tested and certified these companies' products model. If it is not on this list, please contact the manufacture directly for information regarding compatibility of specific mainboard model. If you manufacture SLI mainboard with Dual PCI-Express X16 and are interested in being part of this list, please send an e-mail to support@areca.com.tw If you have problem in any mainboard, please try the manufacture latest BIOS.

### ***SLI Motherboard Compatibility (For Intel 775&AMD 939 CPU)***

Brand	Model Name	Chipset	BIOS	PCI Slot	CPU
ABIT	KN8 SLI	Nvidia nForce 4 SLI	OK	PCIe X16 (X8) *2	AMD 939
ABIT	AN8 SLI	Nvidia nForce 4 SLI	OK	PCIe X16 (X8) * 2	AMD 939
ABIT	Faulty AN8 SLI	Nvidia nForce 4 SLI	OK	PCIe X16 (X8) * 2	AMD 939
ABIT	AN8 32X	Nvidia nForce 4 SLI X16	----	True PCIe X16 * 2	AMD 939
ABIT	NI8-SLI	Nvidia nForce4 SLI Intel	OK	PCIe X16 (X8) *2	Intel 775
ABIT	NI8-SLI GR	Nvidia nForce4 SLI Intel	OK	PCIe X16 (X8) *2	Intel 775
ABIT	AT8	ATI RD480(Crossfire)	----	PCIe X16 (X8) *2	AMD 939
Aopen	i975Xa-YDG	Intel 975X	OK	PCIe X16 (X8) *2	Intel 775
ASUS	A8N32-SLI Deluxe	nVidia nForce 4 SLI X16	OK	True PCIe X16 *2	AMD 939
ASUS	A8N-SLI SE	Nvidia nForce4 SLI	OK(*1)	PCIe X16 (X8) *2	AMD 939
ASUS	A8N-SLI Premium	Nvidia nForce4 SLI	OK(*1)	PCIe X16 (X8) *2	AMD 939
ASUS	A8N-SLI	Nvidia nForce4 SLI	OK(*1)	PCIe X16 (X8) *2	AMD 939
ASUS	A8N-SLI Deluxe	Nvidia nForce4 SLI	OK(*1)	PCIe X16 (X8) *2	AMD 939
ASUS	P5N32-SLI Deluxe	Nvidia nForce4 SLI Intel	OK	PCIe X16 (X8) *2	Intel 775
ASUS	P5ND2-SLI	Nvidia nForce4 SLI Intel	OK	PCIe X16 (X8) *2	Intel 775
ASUS	P5ND2-SLI Deluxe	Nvidia nForce4 SLI Intel	OK	PCIe X16 (X8) *2	Intel 775
Chaintech	VNF4 SLI ZENITH VE	Nvidia nForce4 SLI	-----	PCIe X16 (X8) *2	AMD 939
DFI	NF4 SLI INFINITY	Nvidia nForce4 SLI	Date: 2006/1/19	PCIe X16 (X8) *2	AMD 939
DFI	Lanparty nF4 SLI-DR	Nvidia nForce4 SLI	OK	PCIe X16 (X8) *2	AMD 939
DFI	Lanparty UT NF4 SLI-DR Expert	Nvidia nForce4 SLI	OK	PCIe X16 (X8) *2	AMD 939
DFI	Lanparty UT RDX200 CF-DR	ATI RD480(Crossfire)	-----	PCIe X16 (X8) *2	AMD 939
ECS	KN1 SLI Extreme	Nvidia nForce4 SLI	OK	PCIe X16 (X8) *2	AMD 939
ECS	KN1 SLI Lite	Nvidia nForce4 SLI	OK	PCIe X16 (X8) *2	AMD 939
ECS	KA1 MVP(1.0)	ATI RD480(Crossfire)	-----	PCIe X16 (X8) *2	AMD 939
ECS	PA1 MVP(2.0)	ATI RD480(Crossfire) Intel	-----	PCIe X16 (X8) *2	Intel 775
Evox	EP-9NPA-Sli	Nvidia nForce 4 SLI	OK(*3)	PCIe X16 (X8) *2	AMD 939
Evga	133-K8-nF4	Nvidia nForce 4 SLI	Tested By Evga	PCIe X16 (X8) *2	AMD 939
Gigabyte	GA-K8N-SLI	Nvidia nForce 4 SLI	OK	PCIe X16 (X8) *2	AMD 939
Gigabyte	GA-K8N Pro-SLI	Nvidia nForce 4 SLI	OK	PCIe X16 (X8) *2	AMD 939
Gigabyte	GA-K8N Ultra-SLI	Nvidia nForce 4 SLI	OK	PCIe X16 (X8) *2	AMD 939
Gigabyte	GA-K8NXP-SLI	Nvidia nForce 4 SLI	OK	PCIe X16 (X8) *2	AMD 939
Gigabyte	GA-8N-SLI	Nvidia nForce4 SLI Intel	OK	PCIe X16 (X8) *2	Intel 775
Gigabyte	GA-8N-SLI Royal	Nvidia nForce4 SLI Intel	OK	PCIe X16 (X8) *2	Intel 775
Gigabyte	GA-8N-SLI Pro	Nvidia nForce4 SLI Intel	OK	PCIe X16 (X8) *2	Intel 775
Gigabyte	GA-G1975X	Intel 975X	OK	PCIe X16 (X8) *2	Intel 775

1. Put in PCIEX16\_1(top/right) is ok. But, put in PCIEX16\_2(button/left) has warm boot up problem.

3. It works fine on windows and X64 linux platform. But not linux i386 system.

The mainboard BIOS has legacy IRQ problem

**SLI Motherboard Compatibility-1 (For Intel 775&AMD 939 CPU)**

JetWay	939GT4-SLI	Nvidia nForce 4 SLI	X	PCIe X16 (X8) *2	AMD 939
JetWay	775GT4-G	Nvidia nForce 4 SLI	-----	PCIe X16 (X8) *2	Intel 775
MSI	K8N SLI	Nvidia nForce 4 SLI	OK(*2)	PCIe X16 (X8) *2	AMD 939
MSI	K8N Diamond	Nvidia nForce 4 SLI	OK(*2)	PCIe X16 (X8) *2	AMD 939
MSI	K8N SLI Platinum	Nvidia nForce 4 SLI	OK(*2)	PCIe X16 (X8) *2	AMD 939
MSI	K8N Diamond Plus	Nvidia nForce 4 SLI	OK(*2)	True PCIe X16 *2	AMD 939
MSI	RD480 Neo2	ATI RD480(Crossfire)	-----	PCIe X16 (X8) *2	AMD 939
MSI	P4N SLI	Nvidia nForce4 SLI Intel	-----	PCIe X16 (X8) *2	Intel 775
MSI	P4N Diamond	Nvidia nForce4 SLI Intel	-----	PCIe X16 (X8) *2	Intel 775
MSI	K8N Neo4 Platinum	Nvidia nForce 4 Ultra	OK	PCIe X16 +PCIe X4	AMD 939
Shuttle	XPC SN26P	Nvidia nForce 4 SLI	OK	PCIe X16 (X8) *2	AMD 939
Tyan	Tomcat K8E-SLI S2865	Nvidia nForce 4	V2.02a	PCIe X16 (X8)+PCIeX16	AMD 939
Tyan	Tomcat K8E S2865	Nvidia nForce 4	OK	PCIe X16 *1	AMD 939

**2. Currently version mainboard BIOS has legacy IRQ problem(See below Areca Q10090411)**

**Q10090411 - Can Areca PCIe controller work with the desktop M/Bs chip integrated graphics function on-chip with one PCIe X16 slot originally defining for graphics board option?**

**Answer:** The graphic PCIe x16 socket in motherboard originally defines for graphic adapter. The mainboard BIOS may have two following issues.

1. Without putting other kinds of adapter BIOS in its power up mainboard BIOS scan. In this condition, there is no adapter BIOS display in the system screen.

2. Without properly assign the IRQ routing table after bridge in the legacy mode. Due to Windows system assigning IRQ by ACPI mode, Areca PCIe adapters can work in the Windows environment. But, some of Linux and FreeBSD assign IRQ by legacy mode. Our controller will have problem in this kind of operating system.

The mainboard, without above two issues, can work with ARC-12XX SATAII RAID adapter Phoenix has fixed this issue at 2005/10/28. Most of available M/B BIOS built date should ahead of that date.