



## Approved FireWire chipsets for FireStudio™-series interfaces and StudioLive™ mixers

**Release date: July 25, 2012**

PreSonus FireStudio-series interfaces and StudioLive mixers work with a wide range of FireWire cards and configurations. Due to the plethora of FireWire chipsets currently on the market, it is not possible to thoroughly test each one for compatibility. Most users will not need to alter their current computer configuration to use their FireStudio-series interface.

Please note: This document supersedes previous compatibility documents released by PreSonus on our Web site and in our user manuals. Many manufacturers have changed their chipset designs. This document reflects those changes.

The following FireWire chipsets are available on a wide range of motherboards and FireWire adapter cards:

Manufacturer	Chipset	Configuration Type
LSI (Agere)	FW321	PCI, Laptop Mainboard
LSI (Agere)	FW322	PCI, Laptop Mainboard
LSI (Agere)	FW323	PCI, Laptop Mainboard
LSI (Agere)	FW643	PCI Express, ExpressCard/34, Motherboard, Laptop
Texas Instruments (TI)	TSB43AB21A	PCI, Cardbus, Motherboard
Texas Instruments (TI)	TSB43AA22	PCI, Cardbus, Motherboard
Texas Instruments (TI)	TSB43AB22	PCI, Cardbus, Motherboard
Texas Instruments (TI)	TSB43AB22A	PCI, Cardbus, Motherboard
Texas Instruments (TI)	TSB43AB23	PCI, Cardbus, Motherboard
Texas Instruments (TI)	TI TSB82AA2 + TI TSB81BA3	PCI, Cardbus, Motherboard
Texas Instruments (TI)	TSB82AA2B	PCI, Cardbus, Motherboard
Texas Instruments (TI)	TSB83AA22A	PCI, Cardbus, Mainboard
Texas Instruments (TI)	TSB83AA23	PCI, Cardbus, Motherboard
Texas Instruments (TI)	XIO2200	PCI Express, ExpressCard/34, ExpressCard/54, Motherboard
Texas Instruments (TI)	XIO2200A	PCI Express, ExpressCard/34, ExpressCard/54, Motherboard
Texas Instruments (TI)	XIO2213	PCI Express, ExpressCard/34, ExpressCard/54, Motherboard
Texas Instruments (TI)	XIO2213B	PCI Express, ExpressCard/34, ExpressCard/54, Motherboard
VIA	VT6315/ VT6330	PCI Express, ExpressCard/34, ExpressCard/54, Motherboard

Here is a list of manufacturers and models of PCI, PCI Express (PCI-e), Express-Card134, ExpressCard154, and PCMCIA FireWire cards using approved FireWire chipsets that have been tested by the PreSonus QA team:

Vendor	Format	Part #	1394b	1394a	1394 Chipset
Aaxeon	PCIe x1 Card	FWB-68300	4	-	TI XIO2213B
StarTech	PCI Card	PCI1394MP	-	3	TSB43AB23
Belkin	PCI Card	F5U623-APL	3	-	TI TSB81BA3 + TSB82AA2
StarTech	PCI Card	PCI1394B_3	2	1	TI 3AA651W
SIIG	PCI Card	NN-44012-S8	-	3	TI TSB43AB23
SIIG	PCI Card	NN-831012-S2	3	-	TI TSB81BA3 + TSB82AA2
Belkin	PCI Card	F5U503V	-	3	TI TSB43AB23
Syba / IO Crest	ExpressCard134	SD-EXPC34-2F	-	2	TI XIO2200
Sonnet	ExpressCard134	FW800-E34	2	-	TI XIO2213
StarTech	ExpressCard134	EC13942	-	2	TI XIO2200A
StarTech	ExpressCard134	EC1394B2	2	-	TI - XIO2213A
SIIG	ExpressCard134	NN-EC2012-S2	-	2	TI XIO2200
SIIG	ExpressCard134	NN-EC2012-S1	-	2	VIA VT6315
StarTech	PCie x1	PEX1394B3	2	1	LSI/Agere FW643

This document will be updated as recommendations for different cards become available.

Here is a list of PCI, PCI Express (PCI-e), ExpressCard134, ExpressCard154, and PCMCIA FireWire card models that use approved FireWire chipsets. Although these cards have not been tested by the PreSonus QA team, they use the same, or similar, configurations to cards that have been tested. Because of this, PreSonus is confident that they are compatible with our FireWire products.

Vendor	Format	Part #	1394b	1394a	1394 Chipset	Notes
<a href="#">ADS</a>	PCI	API-315	-	3	TI TSB41AB3	No Longer Made
<a href="#">APIOtek</a>	ExpressCard134	EC-0002C		2	TI XIO 2200A	
<a href="#">APIOtek</a>	ExpressCard134	EC-002A	-	2	TI XIO 2200A	
<a href="#">Belkin</a>	PCIe	F5U504	-	3	TI XIO2200	
<a href="#">Best Connectivity</a>	ExpressCard134	SD-EXP30012	-	2	VIA VT6315	
<a href="#">CoolGear</a>	CardBus	B004FJRPSM	-	2	TI TSB43AB2	
<a href="#">Dawicontrol</a>	PCI	DC-1394 PCI	-	3	TI TSB43AB23	Europe Only
<a href="#">Dawicontrol</a>	PCIe	DC-FW800 PCIe	2	1	TI XIO2213A	Europe Only
<a href="#">Dawicontrol</a>	PCIe	DC-1394 PCIe	-	3	TI XIO 2200A	Europe Only

<a href="#">Dawicontrol</a>	PCI	DC-FW800 PCI	2	1	TI TSB82AA2 + TI TSB81BA3	Europe Only
<a href="#">Dawicontrol</a>	ExpressCard/34	DC-FW800 eCard	2	-	TI TSB82AA2 + TI TSB81BA3	Europe Only
<a href="#">Dawicontrol</a>	ExpressCard/34	DC-1394 eCard	-	2	TI XIO2200A	Europe Only
<a href="#">DeLock/ Tragant</a>	PCI	89 167	2	-	TI TSB82AA2 + TI TSB81BA3	Europe Only
<a href="#">DeLock/ Tragant</a>	PCI	89 234	2	1	TI TSB43AB23	Europe Only
<a href="#">DeLock/ Tragant</a>	PCI	89196	-	3	TI TSB43AB23	Europe Only
<a href="#">DeLock/ Tragant</a>	PCIe	61586	2	1	LSI/Agere FW643	Europe Only
<a href="#">DeLock/ Tragant</a>	PCIe	61643	3	-	LSI/Agere FW643	Europe Only
<a href="#">DeLock/ Tragant</a>	PCIe	89208	4	-	LSI/Agere FW643	Europe Only
<a href="#">DeLock/ Tragant</a>	PCIe	89210	3	-	TI XIO2213B	Europe Only
<a href="#">DeLock/ Tragant</a>	PCIe	61586	2	1	LSI/Agere FW643	Europe Only
<a href="#">DeLock/ Tragant</a>	PCIe	89121	-	2	TI TSB43AB23	Europe Only
<a href="#">DeLock/ Tragant</a>	PCIe	89172	-	2	TI TSB43AB22A	Europe Only
<a href="#">DeLock/ Tragant</a>	PCIe	89202	-	2	TI XIO2200A	Europe Only
<a href="#">DIGITUS</a>	PCIe	DS-30203	2	1	TI XIO2213	Europe Only
<a href="#">DIGITUS</a>	ExpressCard/34	DS-31202	-	2	TI XIO2200	Europe Only
<a href="#">ExSys</a>	PCIe	EX-16415	3	1	TI XIO2213	Europe Only
<a href="#">ExSys</a>	PCIe	EX-16415-L	3	1	TI XIO2213	Europe Only
<a href="#">ExSys</a>	PCI	EX-6410	-	3	TI TSB43AB22A + TI TSB81BA3	Europe Only
<a href="#">ExSys</a>	PCI	EX-6411	2	1	TI TSB43AB22A + TI TSB81BA3	Europe Only
<a href="#">ExSys</a>	PCI	EX-6503E	3	-	TI TSB43AB22A + TI TSB81BA3	Europe Only
<a href="#">ExSys</a>	Cardbus	EX-6601E	2	1	TI TSB43AB22A + TI TSB81BA3	Europe Only
<a href="#">ExSys</a>	PC Express	EX-6701	2	-	TI XIO2213	Europe Only
<a href="#">ExSys</a>	PCIe	EX-16440	-	2	TI XIO2200A	Europe Only
<a href="#">ExSys</a>	PCIe	EX-16450	-	2	TI XIO2200A	Europe Only
<a href="#">ExSys</a>	PCIe	EX-16500E	-	4	TI TSB43AB23	Europe Only

<a href="#">ExSys</a>	PCIe	EX-16501E	-	4	TI TSB43AB23	Europe Only
<a href="#">ExSys</a>	PCIe	EX-16502E	-	2	TI TSB43AB22A	Europe Only
<a href="#">ExSys</a>	PCI	EX-6440	-	3	TI TSB43AB22A	Europe Only
<a href="#">ExSys</a>	PCI	EX-6450	-	3	TI TSB43AB22A	Europe Only
<a href="#">ExSys</a>	PCI	EX-6500E	-	4	TI TSB43AB22A	Europe Only
<a href="#">ExSys</a>	PCI	EX-6502E	-	2	TI TSB43AB22A	Europe Only
<a href="#">ExSys</a>	PCI	EX-6506E	-	3	TI TSB43AB22A	Europe Only
<a href="#">ExSys</a>	PCI	EX-6507E	-	2	TI TSB43AB22A	Europe Only
<a href="#">ExSys</a>	PCI	EX-6508E	-	2	TI TSB43AB22A	Europe Only
<a href="#">ExSys</a>	PCI	EX-6509E	-	2	TI TSB43AB22A	Europe Only
<a href="#">ExSys</a>	PCI	EX-6514E	-	4	TI TSB43AB22A	Europe Only
<a href="#">ExSys</a>	CardBus	EX-6605E	-	2	TI TSB43AB22A	Europe Only
<a href="#">FireWire Direct</a>	ExpressCard/34	NAVCBFW8EC	2	-	TI XIO2213	
<a href="#">FireWire Direct</a>	CardBus	10.803	2	1	TI TSB81BA3 + TSB82AA2	
<a href="#">FireWire Direct</a>	PCIe	NAVPCIEFW8002X	3	3	TI XIO2213	
<a href="#">FireWire Direct</a>	PCIe	NAVPCIEFW800	2	2	TI XIO2213	
<a href="#">FireWire Direct</a>	PCIe	NAVPCIESATFW	3	-	TI XIO2213	
<a href="#">Koutech</a>	ExpressCard/34	1002E	-	2	TI XIO2200	
<a href="#">Other World Computing</a>	ExpressCard/34	EXPC342F	-	2	TI XIO2200	
<a href="#">Other World Computing</a>	ExpressCard/34	EXPC342F1U	-	2	TI XIO2200	
<a href="#">Rain Computers</a>	ExpressCard/34	Express Card	-	2	TI XIO2200	
<a href="#">SIIG</a>	ExpressCard/34	NN-000042-S2	2	-	TI XIO2213B	
<a href="#">SIIG</a>	PCI	NN-40012-S8	-	3	TI TSB43AB23	
<a href="#">SIIG</a>	CardBus	NN-8CB212-S1	1	1	TI TSB81BA3 + TSB82AA2	
<a href="#">SIIG</a>	PCIe	NN-E20112-S2	-	2	TI XIO2200A	
<a href="#">SIIG</a>	PCIe	NN-E38012-S3	2	1	TI XIO2213	
<a href="#">SIIG</a>	ExpressCard/34	NN-EC2812-S2	1	1	TI XIO2213B	
<a href="#">SIIG</a>	CardBus	NN-PC8312-S2	2	1	TI TSB81BA3 + TSB82AA2	
<a href="#">SIIG</a>	CardBus	NN-PCM222-S4	-	2	TI TSB43AB23	
<a href="#">SIIG</a>	CardBus	NN-PCM312-S2	-	3	TI TSB43AB23	

<a href="#">SIIG</a>	ExpresscardI34	NN-EC2012-S1	-	2	VIA VT6315	
<a href="#">Sonnet</a>	PCle	FW400A-E	-	3	TI XIO2000	
<a href="#">Sonnet</a>	PCI	FW800A	2	1	TI TSB81BA3 + TSB82AA2	
<a href="#">Sonnet</a>	PCle	FW800-E	3	-	TI XIO2213	
<a href="#">Sonnet</a>	PCle	FW8USB2A-E	3	-	TI XIO2213	
<a href="#">Sonnet</a>	PCI	FWUSB2A	-	2	TI XIO2000	
<a href="#">Sonnet</a>	PCle	FWUSB2A-E	-	3	TI XIO2000	
<a href="#">Sonnet</a>	ExpressCardI34	FWUSB2-E34	-	2	TI XIO2000	
<a href="#">StarTech</a>	ExpressCardI34	EC13941A1B	1	1	LSI/Agere FW643	
<a href="#">StarTech</a>	ExpressCardI34	EC13942A2	-	2	VIA VT6315	
<a href="#">StarTech</a>	mini-PCle	MPEX1394B3	2	1	LSI/Agere FW643	
<a href="#">StarTech</a>	PCle	PCI1394MP	-	3	TI TSB43AB23 + TI-TSB12LV26	
<a href="#">StarTech</a>	PCle	PEX1394B3LP	2	1	LSI/Agere FW643	
<a href="#">ST Lab</a>	PCI	F-330	-	4	TI TSB43AB23	
<a href="#">ST Lab</a>	PCI	F-161/F-171	2	1	TI TSB882AA2	
<a href="#">ST Lab</a>	PCI	F-330	-	3	TI TSB43AB23	
<a href="#">ST Lab</a>	PCle	F-360	-	3	VIA VT6315	
<a href="#">ST Lab</a>	PCle	F-261	-	3	TI XIO22313A	
<a href="#">ST Lab</a>	CardBus	C-180	2	1	TI TS82AA2	No Longer Made
<a href="#">ST Lab</a>	ExpressCardI34	C-201	-	2	TI XIO2200AZHH	
<a href="#">ST Lab</a>	ExpressCardI34	C-410	-	2	VIA VT6315	
<a href="#">Syba</a>	ExpressCardI34	SD-EXP30012	-	2	VIA VT6315	
<a href="#">Syba / IO Crest</a>	PCle	SD-PEX-FWB	2	2	TI TSB82AA2	
<a href="#">Ultra</a>	PCI	ULT31883	3	-	TI TSB82AA2	
<a href="#">UniBrain</a>	PCle	FB800e Dual	4	-	LSI FW643-e	
<a href="#">UniBrain</a>	PCle	FireBoard800e V.2	2	-	LSI FW643-e	
<a href="#">UniBrain</a>	PCI	FireBoard-800 V.2	3	-	TSB83AA23	
<a href="#">UniBrain</a>	PCI	1205	-	3	TSB83AA23	
<a href="#">UniBrain</a>	PCle	1214	-	2	TI XIO2200A	
<a href="#">UniBrain</a>	ExpressCardI34	FireCard 800e	2	-	TI XIO2213A	
<a href="#">UniBrain</a>	ExpressCardI34	FireCard 8400e	-	2	TI XIO2200AZHH	
<a href="#">Vantec</a>	PCI	UGT-FW100	2	1	TI TSB82AA2 + TI TSB81BA3D	No Longer Made
<a href="#">Vantec</a>	PCle	UGT-FW200	-	2	VIA VT6315N	
<a href="#">Vantec</a>	PCle	UGT-FW210	2	1	TI XIO2213	

Many of these companies, as well as many more that are not listed, have other FireWire cards that use various TI or VIA chipsets. However, because the specific chipset used by these cards has not been provided by their manufacturers, they have not been included in this list. Stating that a FireWire card uses a “TI” or “VIA” chipset is not enough information for that card to be recommended for use with our products.

Please note: Manufacturers may change chipsets at any time, without warning, so we recommend that you verify these models.

## Thunderbolt Compatibility

Using a Thunderbolt-to-ExpressCard adapter and an ExpressCard134 FireWire-card adapter from the “supported” lists in this document will allow a PreSonus FireStudio-series or StudioLive-series interface to work with your Thunderbolt-enabled system.

Manufacturer	Model	Type	Notes
SonnetTech	Echo ExpressCard	Thunderbolt	Works with recommended FireWire ExpressCard134 Cards.

Apple has announced its intention to support FireWire with a Thunderbolt adapter; however at the time this document was created, Apple has yet to make that adapter available for purchase.

Here is an excerpt of ExpressCard134 cards from the preceding interface lists that will work with the Echo Thunderbolt Adapter.

Vendor	Format	Part #	1394b	1394a	1394 Chipset
Syba / IO Crest	ExpressCard134	SD-EXPC34-2F	-	2	TI X102200
StarTech	ExpressCard134	EC13942	-	2	TI X102200A
StarTech	ExpressCard134	EC1394B2	2	-	TI X102213A
SIIG	ExpressCard134	NN-EC2012-S2	-	2	TI X102200
SIIG	ExpressCard134	NN-EC2012-S1	-	2	VIA VT6315
Sonnet	ExpressCard134	FW800-E34	2	-	TI X102213

## Incompatible Hardware

### Cables

You should only use 1394 cables that are 6.6 feet (2 meters) or shorter. Longer 1394 cables have proven to be problematic, especially in areas where there are high-EMF sources such as microwaves, power lines in walls, or overhead power lines outside a studio. To reduce the risk of dropouts, use a heavily shielded 1394 cable.

### FireWire Cable Adapters

Using an adapter to change the connector of a 1394 cable is not recommended. These adapters come in many configurations, such as 9-pin-to-6-pin and 6-pin-to-4-pin. We have found that the grounding in these connectors generally is inconsistent or insufficient, which results in our FireWire devices not being able to sync properly to, or be detected by, a computer. Please use a cable that is properly configured for your connections.

## FireWire Chipsets

The following FireWire chipsets have been tested and found to be incompatible with PreSonus FireStudio-series interfaces and StudioLive mixers:

Manufacturer	Chipset	Type	Notes
ALi / Acer	M5251	PCI	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly.
ALi / Acer	M5253	PCI	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly.
ALi / Acer	M5271	PCI	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly.
JMicron	JMB381	PCI Express, ExpressCard134, Mainboard	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly. JMicron chipsets are found on laptops and motherboards as an embedded interface.
JMicron	JMB382	PCI Express, ExpressCard134, Mainboard	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly. JMicron chipsets are found on laptops and motherboards as an embedded interface.
JMicron	JMB8383	PCI Express, ExpressCard134, Mainboard	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly. JMicron chipsets are found on laptops and motherboards as an embedded interface.
NEC	D72870	PCI	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly.
NEC	D72871	PCI	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly.
NEC	D72872	PCI	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly.
NEC	D72873	PCI	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly.
NEC	D72874	PCI Express	This card has limited functionality. If the listed amount of playback channels is exceeded, or if there is other significant traffic on the bus (DV cam, hard drive, etc.), the card will fail and will not work until after a reboot: 48 channels at 44.1 or 48 kHz, 24 channels at 88.2 or 96 kHz
Ricoh	R5C551	PCI	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly. Ricoh chipsets are found on laptops and motherboards as an embedded interface.
Ricoh	R5C552	PCI	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly. Ricoh chipsets are found on laptops and motherboards as an embedded interface.

Ricoh	R5C553	PCI	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly. Ricoh chipsets are found on laptops and motherboards as an embedded interface.
Ricoh	R5C803	PCI Express	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly. Ricoh chipsets are found on laptops and motherboards as an embedded interface.
Ricoh	R5C832	PCI Express	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly. Ricoh chipsets are found on laptops and motherboards as an embedded interface.
Ricoh	R5C833	PCI Express	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly. Ricoh chipsets are found on laptops and motherboards as an embedded interface.
Ricoh	R5C847	PCI Express	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly. Ricoh chipsets are found on laptops and motherboards as an embedded interface.
Ricoh	R5C853	PCI Express	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly. Ricoh chipsets are found on laptops and motherboards as an embedded interface.
Ricoh	R5U230	PCI Express	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly. Ricoh chipsets are found on laptops and motherboards as an embedded interface.
Ricoh	R5U231	PCI Express	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly. Ricoh chipsets are found on laptops and motherboards as an embedded interface.
Ricoh	R5U241	PCI Express	Only found on laptops and desktop as an embedded interface. Customers have reported having limited success up to 16 tracks before dropouts start to occur.
Texas Inst	TSB12LV21A	PCI	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly.
Texas Inst	TSB12LV21B	PCI	This chipset drops data packets, resulting in devices being unable to sync, play and/or record audio properly.

- ATI Radeon 9000/9001 IGP Video Chipset. Symptoms are consistent clicks and pops during audio playback. This video chipset is only found in PC laptops and is entirely integrated as the computer's only video controller. PreSonus strongly recommends that users do not purchase a system with this chipset for use with a FireStudio interface or StudioLive mixer.
- Motherboards with nForce4 Chipset. Symptoms include reduced to very poor performance, especially if using the onboard FireWire connection. It is highly recommend that users do not purchase a system with this motherboard.



## VIA Chipsets

The following devices are shown by the OHCI Tool from TC to be compatible; however, we have found that while they do provide better than basic functionality, the overall performance of the interface suffers when track counts and plug-in usage exceed 16 stereo tracks. Therefore, we recommend that these cards only be used for minimal needs and suggest that you use a recommended interface, as shown on page 1 of this document.

VIA	VT6306	PCI, Cardbus, Motherboards, Laptops	This controller has been verified to work with limited capability. On some older motherboards, it may only support a limited number of audio channels.
VIA	VT6307	PCI, Cardbus, Motherboards, Laptops	This controller has been verified to work with limited capability. On some older motherboards, it may only support a limited number of audio channels.
VIA	VT6308	PCI, Cardbus, Motherboards, Laptops	This controller has been verified to work with limited capability. On some older motherboards, it may only support a limited number of audio channels.



[www.presonus.com](http://www.presonus.com)