# Sonnet Technologies Thunderbolt Expansion Systems PCIe Card Compatibility

<table>
<thead>
<tr>
<th>PCIe Card</th>
<th>macOS</th>
<th>Windows</th>
<th>Linux</th>
<th>VMWare</th>
<th>M1/M2 Mac</th>
<th>Express SEL</th>
<th>Express SE I</th>
<th>Express SE II</th>
<th>Express SE III/IV</th>
<th>Echo I, Breakaway Box</th>
<th>Echo III II/II</th>
<th>Echo III II/II, xMac Studio</th>
<th>xMac Pro</th>
<th>xMac mini Server</th>
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- **Acquire US309A**
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  - No
  - √
  - √
  - Yes
- **Acquire US310A**
  - WL
  - MW
  - No
  - √
  - Yes
  - Yes
- **Acquire US330A**
  - WL
  - MW
  - No
  - √
  - Yes
  - Yes
- **Acquire SA200P**
  - WL
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  - No
  - √
  - Yes
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## Audio Pro Cards
- **Apogee Symphony 64 PCIe Card**
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  - Yes
  - √
  - Yes
  - Yes
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  - Yes
- **Avid HD Natural**
  - M
  - No
  - √
  - Yes
  - Yes
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  - Yes
- **Avid Pro Tools | HDX**
  - MW
  - Yes
  - √
  - Yes
  - Yes
  - Yes
  - Yes
- **BSS Audio BLU-PCI 64-channel BLU Link Card**
  - W
  - √
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
- **Creative Sound Blaster AE-8**
  - W
  - √
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
- **Dante PCIe R Soundcard**
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  - No
  - √
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- **Audinate PCIe R Soundcard**
  - MW
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- **Focusrite RedNet Dante PCIe-R Soundcard**
  - MW
  - No
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- **Solid State Logic Dante PCIe-R Soundcard**
  - MW
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- **Sonnet Echo Express**
  - MW
  - Yes
  - √
  - Yes
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- **Sonnet Echo Express 3SE IIIe**
  - MW
  - Yes
  - √
  - Yes
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  - Yes
- **Sonnet Echo Express SE IIIe only**
  - MW
  - Yes
  - √
  - Yes
  - Yes
  - Yes
  - Yes

## Ethernet Adapters (Gigabit)
- **Plug CN-OP1211-11-LB-GE0014-51**
  - W
  - √
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
- **Small Tree 10G 82EGS-4T**
  - MW
  - No
  - √
  - Yes
  - Yes
  - Yes
  - Yes
- **Sonnet Presto Gigabit Pro PCIe GE1000AB-27**
  - MW
  - Yes
  - √
  - Yes
  - Yes
  - Yes
  - Yes

## Ethernet Adapters (10 GbE)
- **ASUS XG-C100C**
  - WL
  - √
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
- **ATTO Fast Frame N117, N112**
  - MWLV
  - Yes
  - √
  - Yes
  - Yes
  - Yes
  - Yes
- **ATTO Fast Frame NS112, NS114**
  - MWLV
  - Yes
  - √
  - Yes
  - Yes
  - Yes
  - Yes
- **QNAP QM-10G1T**
  - WL
  - √
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
- **Plug CN-OP1211-51**
  - W
  - √
  - Yes
  - Yes
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  - Yes
  - Yes
- **Small Tree 10GE 82EGS-2X, 82EGS-4T**
  - MW
  - Yes
  - √
  - Yes
  - Yes
  - Yes
  - Yes
- **Sonnet Presto 10GE 82EGS-6T, 82SGS-6T**
  - MWLV
  - Yes
  - √
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  - Yes
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- **Sonnet Presto 10GE 82SGS-2 Port Card**
  - MWLV
  - Yes
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  - Yes
  - Yes
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## Ethernet Adapters (25 GbE)
- **NVidia Connectix 5 MXS121A-ACAT, MCX4412A-ACAT**
  - W
  - √
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
- **NVidia Connectix 6 MXS1212AS-ADAT**
  - W
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  - Yes
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- **NVidia Connectix 4 MCX4121A-ACAT**
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  - No
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  - No
  - No
- **NVidia Connectix 5 MXS121F-ACAT**
  - W
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  - Yes
  - Yes
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  - Yes
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- **NVidia Connectix 6 MXS1210AC-ADAT**
  - W
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  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
- **Sonnet Presto 25GE PCIe Card**
  - MWLV
  - Yes
  - √
  - Yes
  - Yes
  - Yes
  - Yes

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- **Small Tree 25G P2EGS-6T**
  - MW
  - Yes
  - √
  - Yes
  - Yes
  - Yes
  - Yes
- **Sonnet Presto 25GE PCIe Card**
  - MWLV
  - Yes
  - √
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  - Yes
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## PCIe Card

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- Half Length
- Half Length + 1 AUX
- 1 AUX
- Yes or No
- Full Height
- Half Height
- Half Length
- Half Length + 1 AUX
- Half Length + 1 AUX
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**Video Capture & Processing (continued)**

- Deltacast Delta 3G-elp-d 8c
- Deltacast Delta 3G-elp-d 8b
- Deltacast Delta 3G-elp-d 80
- Deltacast Delta 3G-elp-d 84
- Deltacast Delta 3G-elp-d 4c
- Deltacast Delta 3G-elp-2key-d 22
- Deltacast Delta 3G-elp-key-d 2K
- Deltacast Delta 3G-elp-key-d 44
- Deltacast Delta 3G-elp-01
- Deltacast Delta 3G-elp-02
- Deltacast Delta 3G-elp-10
- Deltacast Delta 3G-elp-11
- Deltacast Delta 3G-elp-key-11
- Deltacast Delta 3G-elp-20
- Deltacast Delta 3G-elp-40
- Deltacast Delta 3G-elp-d 01
- Deltacast Delta 3G-elp-d 02
- Deltacast Delta 3G-elp-d 04
- Deltacast Delta 3G-elp-d 10
- Deltacast Delta 3G-elp-d 11
- Deltacast Delta 3G-elp-d 12
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- Deltacast Delta 3G-elp-d 21
- Deltacast Delta 3G-elp-d 22
- Deltacast Delta 3G-elp-d 40
- Deltacast Delta 3G40-hd40-elp-d
- Deltacast Delta-h3k2-elp 20
- Deltacast Delta H4K-elp 20
- Deltacast Delta-asi-elp-d 8C
- Deltacast Delta3G4c-A514c-elp-d
- Deltacast Delta-asi-elp-d 4C
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- Deltacast Delta 3G-ELP 40
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- Deltacast Delta-HD-ELP-D 80
- Deltacast Delta-HD-ELP-D 84
- Deltacast Delta-HD-ELP-D 62
- Deltacast Delta-3G-ELP-D 22
- Deltacast Delta-3G-ELP-D 04
- Deltacast Delta-H4K-ELP 20
- Deltacast Delta 3G-DVI-e 20

**Echo Express PRO**

- Matrix Megas Maxx
- Matrix Mojo Megas
- Matrox Morphis
- Magewell Pro Capture HDMI
- Magewell Pro Capture Dual HDMI
- Magewell Pro Capture Quad HDMI
- Magewell Pro Capture HDMI 4K
- Magewell Pro Capture HDMI 4K Plus
- Magewell Pro Capture HDMI 4K Plus LT
- Magewell Pro Capture Dual HDMI 4K Plus LT
- Magewell Pro Capture SDI
- Magewell Pro Capture Dual SDI
- Magewell Pro Capture Quad SDI
- Magewell Pro Capture SDI 4X Plus
- Magewell Pro Capture Dual SDI 4X Plus
- Magewell Pro Capture AIO
- Magewell Pro Capture AIO 4K
- Magewell Pro Capture AIO 4K Plus
- Magewell Pro Capture AIO 4X Plus
- Magewell Pro Capture AIO 4K Plus
- Magewell Pro Capture DVI
- Magewell Pro Capture Dual DVI
- Magewell Pro Capture DVI 4K
- Magewell Pro Capture DVI 4K Plus
- Magewell Pro Capture Hexa CVBS
- MOTO PCI-424
- RED ROCKET 14
- RED ROCKET x13

**Echo Express II**

- Matrix Megas Maxx
- Matrix Mojo Megas
- Matrox Morphis
28. Avid's latest ProTools Thunderbolt Chassis Compatibility linked here

27. On June 8, 2023, Avid released version 2023.6 which fixed Avid Native issue with Mac Studio and MacBook Pro 2021.

26. Adding an HDSP TCO Timecode Option Module, an RME HDSPe MADI FX OPTO-X or an RME Word Clock Module (WCM) requires a 3-slot chassis.

25. Windows 11 requires version 22H2+ to support the Echo Express SE III/ IIIe, Echo Express III TB3, Echo III, or any PCIe card with a Gen 3.0 or 4.0 PCIe Switch.

24. With optional 3rd party low profile bracket, not included

23. Thunderbolt 3 has the bandwidth to support at full bandwidth 1) two 10GbE connections; or 2) a single 25GbE connection.

22. Requires firmware version 4.0.10+ & hardware version 4.2.0.9+. Supports macOS 10.14-11.5 (except M1 Macs) and Windows 10 and 11 with Rednet Control software 2.8.5+.

21. Not recommended. These cards are supported, but the resolution and/or number of video streams may be limited.

20. Mac Pro 6,1 (Late 2013) computers require UAD v9.6.1 Build 62772 or higher.

19. 6-pin to 8-pin PCIe power adapter cable required, sold separately.

18. In Sonnet tests, RED ROCKET with a Thunderbolt 2-equipped Echo Express III supported:

- 11 fps @ 5K, full-frame, 16-bit
- 24 fps @ 6K, full-frame, 8-bit
- 64.5 fps @ 6K, full-frame, 8-bit, exporting to 1080
- 56.5 fps @ 6K, full-frame, 8-bit, exporting to 1080 (note: should be able to do 3D 1080 in real time)

17. In Sonnet tests, RED ROCKET X with a Thunderbolt 2-equipped Echo Express III supported:

- 13 fps @ 5K, full-frame, 8-bit (note: should be sufficient for playback of dailies in the field)
- 16 fps @ 5K, full-frame, 16-bit
- 22 fps @ 6K, full-frame, 8-bit
- 12 fps @ 6K, full-frame, 8-bit, exporting to 1080

16.Uses beta driver. Hot plug not supported.

15. Matrox cards do not support Windows 10 Fast Startup. Please disable this feature if you are using a mobile workstation.

14. This card has a cabled daughter card that can be installed in the SE I or SE II AUX card space, and takes two slots in other chassis. Does not fit in Breakaway Box.

13. This is a single slot but doublewide PCIe card that occupies two slot spaces. Fits in Breakaway Box.

12. These cards require PCIe auxiliary power. The Echo Express SE Ile provides a total power of 25W to the auxiliary power and PCIe connectors.

11. Single SSD in this chassis.


9. Cooling Kit for ATTO R680 RAID Card (Sonnet Part No. CE-R680) required for Echo Express III or xMac mini Server chassis.

8. These are PCIe x8 cards, and they may not achieve maximum bandwidth or number of video channels over Thunderbolt 3, which provides PCIe 3 x4.

7. Only Sonnet Presto Gigabit Pro PCIe model number GE1000LAB-E (shipping on or after January 1, 2014) is Thunderbolt compatible.

6. Only Sonnet Presto Gigabit Pro PCIe model number GE1000LAB-E (shipping on or after January 1, 2014) is Thunderbolt compatible.

5. Requires firmware version 4.0.10+ & hardware version 4.2.0.9+. Supports macOS 10.14-11.5 (except M1 Macs) and Windows 10 and 11 with Rednet Control software 2.8.5+.

4. These cards have been discontinued. Continuing OS support may be limited.


2. These cards draw more than 3 Amps at 3.3V, exceeding the specification for the single PCIe slot Echo Express SE I chassis.

1. Only 2nd Generation Thunderbolt 2 xMac mini Server, part number XMAC-M5-A, supports an AUX card. All Thunderbolt 3 models support an AUX card.

Technical Notes

- PCIe Card

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For most current information, contact the PCIe card manufacturer. Specifications are subject to change without notice.