SONNETTECH

Sonnet Technologies Thunderbolt Expansion Systems PCIe Card Compatibility

PCIe Card (FHHL = Full Height Half Length) (FHFL = Full Height Full Length)	macOS Windows Linux	Echo Exp SEL TB3/TB5 •1 Low Profile x8 Slot	Echo Exp SE I TB3 •1 FHHL x8 Slot	Echo SE I T5 TB5 •1 FHHL x16 card •Daughter card •15W Aux Pwr	Echo Exp SE IIIe TB3/TB5 •3 FHHL x8 slots •30W Aux Pwr	Echo IIDV TB3/TB5 • 2FHFL x16 •Dual Thunderbolt •2x75W Aux Pwr	Echo III TB3/TB5 • 1 FHFL x16 • 2 FHFL x8 • 75W Aux Pwr
ADC, DAC, Digital I/O, Waveform Generators							
Acquiris SA1 DAQ (SA108P, SA120P)[1]	WL	-	-	-	-	√	√
Acquiris SA2 DAQ (SA217P, SA220P, SA230P, SA240P, SA248P)[1]	WL	-	-	-	-	√	√
Acquiris SA3 DAQ (SA310P, SA322P, SA331P)[1]	WL	-	-	-	-	√	√
Spectrum Intrumentation 22xx ADC Digitizer[25]	WL	-	-	-	-	√	√
Spectrum Intrumentation 33xx ADC Digitizer[2,25]	WL	-	-	-	-	-	√
Spectrum Intrumentation 44xx ADC Digitizer[25]	WL	-	-	-	-	√	√
Spectrum Intrumentation 59xx ADC Digitizer[25]	WL	-	-	-	-	√	√
Spectrum Intrumentation 63xx DAC AWG[2,25]	WL	-	-	-	-	-	√
Spectrum Intrumentation 65xx DAC AWG[25]	WL	-	-	-	-	√	√
Spectrum Intrumentation 66xx DAC AWG[25]	WL	-	-	-	-	√	√
Spectrum Intrumentation 75xx Digital I/O[25]	WL	-	-	-	-	√	√
Spectrum Intrumentation 77xx Fast Digital Waveform Acquisition[25]	WL	-	-	-	-	√	√
Spectrum Intrumentation 96xx 16 Bit DDS 200 MHz[25]	WL	-	-	-	-	√	√
Audio Cards							
AVID PRO TOOLS THUNDERBOLT COMPATIBILITY							
Avid Pro Tools | HDX[5]	MW	-	-	-	-	√	√
Creative Sound Blaster AE-9	W	-	√	√	√	√	√
Creative Sound Blaster AE-7	W	-	√	√	√	√	√
Creative Sound BlasterX AE-5 Plus	W	-	√	√	√	√	√
Creative Sound Blaster Z SE	W	-	√	√	√	√	√
Creative Sound Blaster Audigy FX V2	W	-	√	√	√	√	√
FocusRite PCIeNX Dante Interface	MW	-	√	√	√	√	√
Lynx AES16e	MW	-	√	√	√	√	√
Lynx AES16e-SRC	MW	-	√	√	√	√	√
Lynx E22 Rev C	MW	-	√	√	√	√	√
Lynx E44 Rev C	MW	-	√	√	√	√	√
Marian Clara E[2]	WL	-	-	-	-	-	√
RME HDSPe AES[5]	MW	-	√[5]	√[5]	√	√[5]	√
RME HDSPe AoX-D[5]	MW	-	√[5]	√[5]	√	√[5]	√
RME HDSPe MADI[5]	MW	-	√[5]	√[5]	√	√[5]	√
RME HDSDe MADI FX[5]	MW	-	√[5]	√[5]	√	√[5]	√
RME HDSPe RayDAT[5]	MW	-	√[5]	√[5]	√	√[5]	√
RME HDSPe AIO Pro[5]	MW	-	√[5]	√[5]	√	√[5]	√
RME HDSPe AoX-M[5]	MW	-	√[5]	√[5]	√	√[5]	√
RME HDSPe AoX-D[5]	MW	-	√[5]	√[5]	√	√[5]	√
Universal Audio UAD-2 Quad, Octo DSP Accelerator[6]	MW	-	-	-	√	√	√
Ethernet Adapters (10GbE)							
ASUS XG-C100C	WL	√	√	√	√	√	√
ATTO Dual-Port Ethernet SmartNIC N422	MWL	√	√	√	√	√	√
Intel X550-T2	ML	√	√	√	√	√	√
Sonnet Solo10G 10GBaseT	MWL	√	√	√	√	√	√
Sonnet Solo10G SFP+ V2	MWL	√	√	√	√	√	√
Sonnet McFiver	MWL	-	√	√	√	√	√
Sonnet Twin10G 2-Port 10GBaseT	MWL	√	√	√	√	√	√
Sonnet Twin10GM 2-port SFP28	MWL	√	√	√	√	√	√
TPLink TX401	WL	√	√	√	√	√	√
Ethernet Adapters (25GbE)							
ATTO Dual-Port Ethernet SmartNIC N422	MWL	√	√	√	√	√	√
NVIDIA ConnectX-6 Lx 25/50G NIC	WL	√	√	√	√	√	√
Sonnet Twin25G PCIe Card	MWL	√	√	√	√	√	√
Fibre Channel							
ATTO Celerity FC-161P	MWL	√	√	√	√	√	√
ATTO Celerity FC-321E[1]	MWL	√	√	√	√	√	√
ATTO Celerity FC-321P[1]	MWL	√	√	√	√	√	√
ATTO Celerity FC-322E[1]	MWL	√	√	√	√	√	√
ATTO Celerity FC-322P[1]	MWL	√	√	√	√	√	√
ATTO Celerity FC-324E[1]	MWL	-	-	-	-	√	√
ATTO Celerity FC-324P[1]	MWL	-	-	-	-	√	√
ATTO Celerity FC-641E	MWL	-	√	√	√	√	√
ATTO Celerity FC-642E	MWL	-	√	√	√	√	√

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Video Capture & Processing							
Acasis Quad 1080p60 HDMI Video Capture Card	W	-	√	√	√	√	√
Acasis Quad 1080p60 SDI Video Capture Card	W	-	√	√	√	√	√
Acasis 4K60 HDMI Video Capture Card	W	-	√	√	√	√	√
AJA Corvid 44/44LP	MWL	-	√	√	√	√	√
AJA Corvid 44 12G[1,3]	MWL	-	-	√	√	√	√
AJA Corvid 44 BNC	MWL	-	√	√	√	√	√
AJA Corvid 88/88LP	MWL	-	√	√	√	√	√
AJA Kona 1	MWL	-	√	√	√	√	√
AJA Kona HDMI[5]	MWL	-	√	√	Preferred	√	Preferred
AJA Kona 4[5]	MWL	-	√	√	Preferred	√	Preferred
AJA Kona 5[1]	MWL	-	-	√	√	√	√
AJA Kona X	MWL	-	√	√	√	√	√
AJA Kona IP25[3]	MWL	-	-	-	-	√	√
Blackmagic DeckLink 4K Extreme 12G[3,5]	MWL	-	-	√	Preferred	√	Preferred
Blackmagic DeckLink 8K Pro[1,3]	MWL	-	-	√	√	√	√
Blackmagic DeckLink 8K Pro G2[1,3]	MWL	-	-	√	√	√	√
Blackmagic DeckLink 8K Pro Mini	MWL	√	-	-	-	-	-
Blackmagic DeckLink Duo 2	MWL	-	√	√	√	√	√
Blackmagic DeckLink Duo 2 Mini	MWL	√	-	-	-	-	-
Blackmagic Intensity Pro 4K	MWL	-	√	√	√	√	√
Blackmagic DeckLink IP 100G	MWL	-	-	-	-	√	√
Blackmagic DeckLink IP HD	MWL	√	√	√	√	√	√
Blackmagic DeckLink IP HD Optical	MWL	√	√	√	√	√	√
Blackmagic DeckLink IP/SDI HD	MWL	-	√	√	√	√	√
Blackmagic DeckLink Mini Monitor	MWL	√	√	√	√	√	√
Blackmagic DeckLink Mini Monitor 4K	MWL	√	√	√	√	√	√
Blackmagic DeckLink Mini Recorder	MWL	√	√	√	√	√	√
Blackmagic DeckLink Mini Recorder 4K	MWL	√	√	√	√	√	√
Blackmagic DeckLink Quad 2[5]	MWL	-	√	√	Preferred	√	Preferred
Blackmagic DeckLink Quad HDMI Recorder[1]	MWL	-	√	√	√	√	√
Blackmagic DeckLink SDI 4K	MWL	-	√	√	√	√	√
Blackmagic DeckLink Studio 4K[2]	MWL	-	√	√	√	√	√
Bluefish444 Epoch Neutron	MWL	-	√	√	√	√	√
Bluefish444 Epoch Neutron LP	MWL	√	√	√	√	√	√
Bluefish444 Epoch 4K Neutron	MWL	-	√	√	√	√	√
Bluefish444 Epoch 4K Neutron LP	MWL	√	√	√	√	√	√
Bluefish444 Epoch Supernova CG	MWL	-	√	√	√	√	√
Bluefish444 Epoch 4K Supernova S+	MWL	-	√	√	√	√	√
Bluefish444 Epoch 4K Supernova S+ EX[2]	MWL	-	-	√	-	√	√
Bluefish444 Kronos K8[1]	MWL	-	√	√	√	√	√
Bluefish444 Kronos K8 (R)[1]	MWL	-	√	√	√	√	√
Bluefish444 Kronos Optikós3G[1]	MWL	-	√	√	√	√	√
Bluefish444 Kronos Optikós3G ST IP[1]	MWL	-	√	√	√	√	√
Bluefish444 Kronos Optikós3G CX SDI[1]	MWL	-	√	√	√	√	√
DELTACAST THUNDERBOLT 5 COMPATIBILITY STATEMENT							
DeltaCast 3G SDI Cards [DELTA-3F-3...]	Developer	-	-	√	√	√	√
DeltaCast 12G SDI Cards [DELTA-12G-e...]	Developer	-	-	√	√	√	√
DeltaCast HDMI Cards [DELTA-hmi-e 40, DELTA-h4k2-elp 20]	Developer	-	-	√	√	√	√
DeltaCast 12G SDI/HDMI [DELTA-12G11-hmi11-e-key, DELTA-12G2c-hmi10-elp]	Developer	-	-	√	√	√	√
DeltaCast 3G SDI/DVB [DELTA-12G2c-asi8c-elp-h]	Developer	-	-	√	√	√	√
DeltaCast IP25 Cards [DELTA-IP25-44-SDI-4c-elp, DELTA-IP25-44-SDI-4c-e]	Developer	-	-	√	√	√	√
DeltaCast SMPTE 2110 25 GbE I/O [DELTA-IP25-44-elp]	Developer	-	-	√	√	√	√
DeltaCast SMPTE 2110 Capture [DELTA-ip-ST2110 10]	Developer	-	-	√	√	√	√
DeltaCast SMPTE 2110 Playout [DELTA-ip-ST2110 01]	Developer	-	-	√	√	√	√
DeltaCast TimeCode Card [Delta-LTC-1]	Developer	-	-	√	√	√	√
Magewell Pro Capture HDMI	MWL	√	√	√	√	√	√
Magewell Pro Capture Dual HDMI	MWL	√	√	√	√	√	√
Magewell Pro Capture Quad HDMI[2]	MWL	-	√	√	√	√	√
Magewell Pro Capture HDMI 4K	MWL	√	√	√	√	√	√
Magewell Pro Capture HDMI 4K Plus	MWL	√	√	√	√	√	√
Magewell Pro Capture HDMI 4K Plus LT	MWL	√	√	√	√	√	√
Magewell Pro Capture Dual HDMI 4K Plus LT[1]	MWL	-	√	√	Preferred	√	Preferred
Magewell Pro Capture SDI	MWL	√	√	√	√	√	√
Magewell Pro Capture Dual SDI	MWL	√	√	√	√	√	√
Magewell Pro Capture Quad SDI	MWL	-	√	√	√	√	√
Magewell Pro Capture SDI 4K Plus	MWL	√	√	√	√	√	√
Magewell Pro Capture Dual SDI 4K Plus[1]	MWL	-	√	√	Preferred	√	Preferred
Magewell Pro Capture AIO	MWL	-	√	√	√	√	√
Magewell Pro Capture AIO 4K	MWL	√	√	√	√	√	√
Magewell Pro Capture AIO 4K Plus	MWL	√	√	√	√	√	√
Magewell Pro Capture DVI	MWL	√	√	√	√	√	√
Magewell Pro Capture Dual DVI	MWL	-	√	√	√	√	√
Magewell Pro Capture DVI 4K	MWL	√	√	√	√	√	√
Magewell Pro Capture Hexa CVBS	WL	√	√	√	√	√	√
Magnica MEP 100G SmartNIC SMPTE 2110	MWL	-	-	-	-	√	√

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SSD							
OWC Accelsior 8M2	MWL	-	-	-	-	√	√
Sonnet M.2 2x4 PCIe Card[1]	MWL	√	√	√	√	√	√
Sonnet M.2 4x4 PCIe Card[1]	MWL	-	-	-	-	√	√
Sonnet M.2 8x4 PCIe Card	MWL	-	-	-	-	√	√
Sonnet McFiver	MWL	-	√	√	√	√	√
Sonnet Fusion Dual 2.5 Inch SSD RAID	MWL	-	-	-	-	√	√
Sonnet Tempo SSD	MWL	-	√[7]	√[7]	√[7]	√	√
Highpoint SSD7101A-1[1]	MWL	-	-	-	-	√	√
Highpoint SSD7104[1]	MWL	-	-	-	-	√	√
Highpoint SSD7105[1]	WL	-	-	-	-	√	√
Highpoint SSD7140A[1]	MWL	-	-	-	-	√	√
Highpoint SSD7202[1]	WL	-	-	-	-	√	√
Highpoint SSD7204[1]	MWL	-	-	-	-	√	√
Highpoint SSD7502	MWL	-	-	-	-	√	√
Highpoint SSD7505	MWL	-	-	-	-	√	√
Highpoint SSD7540	MWL	-	-	-	-	√	√
Highpoint Rocket 7608A	WL	-	-	-	-	√	√
Highpoint SSD7749M2	WL	-	-	-	-	√	√
Highpoint SSD7749M	WL	-	-	-	-	√	√
SAS/SATA							
Areca ARC-1883x 8-port 12Gb SAS RAID adapter[1]	MWL	-	-	√	√	√	√
ATTO ExpressSAS H1280GT	MWL	√	√	√	√	√	√
ATTO ExpressSAS H12F0GT	MWL	√	√	√	√	√	√
USB 3							
Sonnet Allegro USB 3.2 PCIe 4-Port	MWL	-	√	√	√	√	√
Sonnet Allegro Pro USB 3.2 PCIe (4-Port)	MWL	-	√	√	√	√	√
Sonnet Allegro USB 3.2 (7-Port)	MWL		√	√	√	√	√
Sonnet Allegro USB-C PCIe (2-port)	MWL	√	√	√	√	√	√
Sonnet Allegro USB-C 4-Port	MWL	-	√	√	√	√	√
Sonnet Allegro USB-C 8-port[1]	MWL	-	-	√	-	√	√
Sonnet Allegro Max USB-C 20Gbps 1-port	WL	√	√	√	√	√	√
Sonnet McFiver	MWL	-	√	√	√	√	√

Technical Notes

1. These are PCIe 3 x8 or PCIe 3 x16 cards, and they may not achieve maximum available Thunderbolt 5 bandwidth in a PCIe 4.0 x4 slot
2. This is a single slot PCIe card with daughter card, that requires either a daughter card space, or adjacent PCIe slot
3. These cards require PCIe auxillary power.
   The Echo SE I TB5 provides total power of 40W to the AUX power and PCIe connector.
   The Echo SE IIIe TB3/TB5 provides total power of 80W to the auxiliary power and PCIe connectors.
   Please make sure that the combined power requirements of all installed cards fit within these power budgets.
4. RME card have optional modules which can take a daughter card slot or PCIe slot. Using two modules requires a three-slot chassis.
5. These are PCIe 2 x8 cards, and they will get their full bandwidth in an Echo SE III or Echo III chassis, which have a PCIe bridge chip that connects
6. This cards draw more than 3 Amps at 3.3V, exceeding the specification for the single PCIe slot Echo Express SE I chassis.
7. Single SSD in this chassis.
8. Spectrum Instrumentation cards have options that can extend the cards' length and/or the width (front side or back side). Check with SI for fit.

Sonnet provides this table as a courtesy based on the information made available to Sonnet by the card manufacturers.
Sonnet has tested Sonnet cards; but has not tested every 3rd-party card, and we cannot guarantee their compatiblity.
For most current information, contact the PCIe card manufacturer. Specifications are subject to change without notice.
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