SONNETTECH®

M.2 8x4, 4x4, 2x4 PCIe Cards, and Echo Dual NVMe Thunderbolt Dock SSD Compatibility

√ = recommended;
√ hs = includes heat sink or spreader suitable for NVME Dock;
no = not compatible

COMPANY	NVMe M.2 SERIES (2280 Only)	PCIe Gen	M.2 8x4 M.2 4x4 M.2 2x4 Echo 20	NVMe Dock[12]	1TB	2 TB	4 TB	8 TB	Read[5] (MB/s)	Write[5] (MB/s)
Addlink	S68	3	√	√	√				2100	1700
	S70 Lite	3	√	√	√	√			3500	3000
	X70[13]	3	no	√ hs	√	√			3500	3000
	S72	3	√	√	√	√	√		3400	3000
	S90 Lite	4[6]	√	√	√	√			5000	4400
	A90[13]	4	no	√ hs	√	√			5000	4400
	A92[13]	4	no	√ hs	√	√	√		4900	3600
	S92	4	√	√	√	√	√		4900	3600
	X95[13] (Discontinued)	4	no	no	√	√			7100	6000
	A95[13]	4	no	√ hs	√	√	√		7400	7000
	S95	4	√	√	√	√	√	√	7400	7000
Corsair	Force Series MP300	3(x2)	√	√	√				1600	1080
	Force Series MP400	3	no	no	√	√	√	√	3480	3000
	Force Series MP510	3	√	√	√	√	√		3480	2000
	Force Series MP600[6]	4	√[8]	√[7]	√	√			4950	4250
	Force Series MP600 PRO LPX[3]	4	no	√ hs	√	√	√		7100	6800
	MP600 PRO XT Hydro X Edition	4	no	no		√	√		7100	5800
Crucial	P1 (discontinued)	3	√	√	√	√			2000	1700
	P2	3	√	√	√	√			2400	1900
	P3	3	√	√	√	√	√		3500	3000
	P5	3	no	no	√	√			3400	3000
	P3 Plus	4	√	√	√	√	√		5000	4200
	P5 Plus	4	√	√	√	√			6000	5000
Gigabyte	M.2 PCIe SSD	3(x2)	√	√					1550	850
	NVMe SSD	3	√	√	√				2500	2100
	M.2 SSD	3	√	√	√				3400	3200
	M30	3	√	√	√				3500	3000
	2500E	3	√	√	√				2400	1800
	AORUS RGB NVMe[13]	3	no	√ hs					3480	2000
	AORUS Gen4 SSD	4	√	√	√	√			5000	4400
	AORUS NVMe Gen 4[3]	4	no	no	√	√			5500	4400
	AORUS Gen4 7000s	4	no	no	√	√			7000	6850
	AORUS Gen4 7000s Prem	4	no	no	√	√			7000	6850
HP	EX 950	3	√	√	√	√			3500	2900
Kingston	A1000 (discontinued)	3(x2)	√	√	√					
	A2000	3	√	√	√				2200	2000
	DC1000 Enterprise	3	no[9]	√	√				3400	925
	KC1000 (discontinued)	3	√	√	√					
	KC2000 (discontinued)	3	√	√	√	√			3200	2200
	NV1	3	√	√	√	√			2100	1700
	NV2	4	√	√	√	√			3500	2800
	KC3000[13]	4	√	√	√	√	√		7000	7000
	FURY Renegade[13]	4	√	√ hs	√	√	√		7300	7000
KIOXIA	EXCERIA	3	√	√	√				1700	1600
	EXCERIA PLUS	3	no[14]	√	√	√			3400	3200
	XG3[4] (discontinued)	3	√	√	√					
	XG5 (discontinued)	3	√	√	√				3000	2100
	XG5-P (discontinued)	3	√	√	√	√			3000	2200
	XG6	3	√	√	√				3180	2920
	XG6-P	3	√	√		√			3180	2920
	Toshiba RC500 (discontinued)	3(x2)	√	√					1700	1600
	Toshiba RD400 (discontinued)	3	√	√	√				2600	1600
	Toshiba RD500 (discontinued)	3	√	√	√				3400	3200
	BG5[4]	4	√	√	√				3500	2900
	XG8	4	√	√	√	√	√		7000	5800

COMPANY	NVMe M.2 SERIES (2280 Only)	PCIe Gen	M.2 8x4 M.2 4x4 M.2 2x4 Echo 20	NVMe Dock[12]	1TB	2 TB	4 TB	8 TB	Read[5] (MB/s)	Write[5] (MB/s)
KLEVV	CRAS C700	3	√	√	√				1500	1300
	CRAS C700 RGB	3	no	no	√				1500	1300
	CRAS C710	3	√	√	√				2100	1650
	CRAS C720	3	√	√	√	√			3400	3100
	CRAS C920	4	√	√	√	√			7000	6850
Micron	2200 (Discontinued)	3	√	√	√				3000	1600
	2210	3	√	√	√	√			2200	1800
	2300	3	√	√	√	√			3300	2700
	2450[4]	4	√	√	√	√			3500	3000
	2400[4]	4	√	√	√	√			4500	4000
	3400	4	√	√	√	√			6600	5000
	7300 MAX (Enterprise)[4]	3	√	√	√				700	2400
	7400 MAX (Enterprise)[4]	4	√	√	√	√	√		4400	2200
	7450 MAX (Enterprise)[4]	4	√	√	√	√	√		5000	2500
Mushkin	Alpha	3	no	√			√	√	3400	3000
	Element	3	no	√	√	√			2000	1700
	Helix-L	3	no	√	√				2110	1700
	PILOT	3	no	√	√	√			2110	1700
	PILOT-E	3	no	√	√	√			2705	2700
	Tempest[4]	3	no	√	√	√			3250	2900
	Delta	4	no	√	√	√	√		4975	3975
	Gamma	4	no	√	√	√	√	√	7000	5900
	Vortex	4	no	√	√	√			7415	6800
OWC	Auro P12 Pro	3	√	√	√	√	√	√	3400	3000
	Aura Pro IV	4	√	√	√	√			7415	6800
Patriot / Viper	Scorch (discontinued)	3	no	√					1700	950
	P300	3	no	√	√	√			2100	1650
	P310	3	no	√	√	√			2100	1800
	P400	4	no	√	√				5000	4800
	VPN110[13]	3	no	√ hs	√	√			3300	3000
	VPR400 RGB (discontinued)	4	no	no	√				4600	4400
	VP4300[13]	4	no	√ hs	√	√			7400	6800
Pioneer	APS-SE10G	3(x2)	√	√	√	√			1600	1000
	APS-SE20	3	√	√	√				2100	1600
	APS-SE20G	3	√	√	√	√			3400	3000
	APS-SE20Q	3	√	√	√	√			3400	3000
PNY / XLR8	CS1030	3	√	√	√	√			2100	1900
	CS2130	3	√	√	√	√	√	√	3500	3000
	CS2230	3	√	√	√				3300	2600
	CS2140	4	√	√	√	√			3300	3000
	CS2240	4	√	√	√				4700	3800
	CS2241[6]	4	√	√	√	√			5000	4200
	CS3030	3	√	√	√	√	√		3500	3100[10]
	CS3040	4	√	√	√	√	√		5600	4300
	CS3140	4	√	√	√	√	√		7500	6850
	LX3030	3	√	√	√	√			3200	2400
	LX2030	3	√	√		√			3200	1000
Sabrent	Rocket	3	√	√	√	√	√		3450	3000
	Rocket Q	3	√	√	√	√	√	√	3450	3000
	Rocket 4 Plus G	4	√	√	√	√	√		7850	6850
	Rocket Q4	4	√	√	√	√	√		4900	1800
	Rocket 4	4	√	√	√	√			5000	4400
	Rocket 4 Plus	4	√	√	√	√	√	√	7000	6850

COMPANY	NVMe M.2 SERIES (2280 Only)	PCIe Gen	M.2 8x4 M.2 4x4 M.2 2x4 Echo 20	NVMe Dock[12]	1TB	2 TB	4 TB	8 TB	Read[5] (MB/s)	Write[5] (MB/s)
Samsung[16]	960 EVO	3	√	√	√				3200	1900
	960 Pro[1]	3	√	√	√	√			3500	2100
	970 EVO	3	√	√	√	√			3500	2500
	970 EVO Plus[1,8]	3	√	√	√	√			3500	3300[8]
	970 Pro	3	√	√	√				3500	2700
	980	3	√	√	√				3500	3000
	983 DCT[2]	3	no	no	√	√			3000	1340
	980 Pro[3]	4	√	√hs	√	√			7000	5000
	990 Pro[3,6]	4	√	√	√	√			7450	6900
Samsung OEM	PM981 (discontinued)	3	√	√	√	√			3200	2400
	PM981a	3	√	√	√	√			3500	3000
	PM991	3	√	√	√	√			3300	2400
	PM991a	3	√	√	√	√			3500	3000
	PM9A1	4	√	√		√			7000	5200
Seagate	BarraCuda Q5	3	√	√	√	√			2400	1800
	IronWolf 510 (discontinued)	3	√	√	√	√			3150	1000
	IronWolf 525	4	√	√	√	√			5000	3400
	FireCuda 510	3	√	√	√	√			3450	3200
	FireCuda 520	4	√	√	√	√			5000	4000
	FireCuda 530[3]	4	√	√ hs	√	√	√		7300	6900
Silicon Power	P32A80[6]	3(x2)	√	√					1600	1000
	P34A60[6]	3	√	√	√	√			2200	1600
	P34A80[6]	3	√	√	√	√			3400	3000
	XD80[6,13]	3	no	√ hs	√	√			3400	3000
	UD70[6]	3	√	√	√	√	√		3400	3000
	UD80[6]	3	√	√	√	√			3400	3000
	US70[6]	4	no	√ hs	√	√			5000	4400
	UD90[6]	4	√	√	√	√			5000	4800
	XS70[6,13]	4	no	√ hs	√	√	√		7300	6800
SK Hynix	Gold P31[6]	3	√	√	√				3500	3200
	Gold P41[6]	4	√	√	√	√			7000	6500
Soidigm (Intel)	DC P4511 (Enterprise)[2]	3	no	no	√	√			2000	1430
	600p (discontinued)	3	√	√	√				1800	560
	660p	3	√	√	√	√			1800	1800
	670p	3	√	√	√	√			3500	2700
	760p (discontinued)	3	√	√	√	√			3230	1625
	Optane (discontinued)	3	√	√	√				2400	1800
	P41 Plus	4	√	√	√	√			4125	3325
SSSTC (Lite-On)	MU X1	3	√	√	√	√			3400	3000
	MU X2	3	√	√	√				2600	1800
	EPX[2]	3	no	no	√	√			1700	750
	EP7	3	no	no	√	√			3200	1800
	CLR	3	√	√					1600	1300
	CL1[4]	3	√	√	√				2000	1000
	CA3	3	√	√	√				3000	2000
	CA5	3	√	√	√				3300	2100
	CL4[4]	4	√	√	√				3700	2600
	CA6	4	√	√	√	√			6800	4800

COMPANY	NVMe M.2 SERIES (2280 Only)	PCIe Gen	M.2 8x4 M.2 4x4 M.2 2x4 Echo 20	NVMe Dock[12]	1TB	2 TB	4 TB	8 TB	Read[5] (MB/s)	Write[5] (MB/s)
Team Group	P30 (Discontinued)	3	no	√					2500	1350
	MP33[14]	3	no	√	√	√			1800	1500
	MP33 Pro[14]	3	no	√	√	√			2400	2100
	MP34[14]	3	no	√	√	√	√		3500	2900
	MP34Q[14]	3	no	√		√	√	√	3400	3000
	MP44L14	4	no	√ hs	√	√			5000	4500
	CARDEA IOPS[13]	3	no	√ hs[7]	√				3400	3000
	CARDEA ZERO Z330[14]	3	no	√ hs	√	√			2100	1700
	CARDEA ZERO Z340[14]	3	no	√ hs	√	√	√		3500	2900
	CARDEA Liquid	3	no	no	√				3400	3000
	CARDEA II[13]	3	no	no	√				3400	3000
	CARDEA ZERO[14]	3	no	√					2650	1450
	CARDEA[13]	3	no	no					2650	1450
	CARDEA II TUF Gaming All.[13]	3	no	no	√				3400	3000
	CARDEA A440 Pro Special[13]	4	no	no: hs[7]	√	√	√		7400	7000
	CARDEA A440 Pro[13]	4	no	no: hs[7]	√	√	√		7400	7000
	CARDEA Z44L[14]	4	no	√ hs	√				3500	3000
	CARDEA Z44Q[13]	4	no	no: hs[7]		√	√		5000	4000
	CARDEA A440[13]	4	no	no: hs[7]	√	√			7000	6900
	CARDEA ZERO Z440[14]	4	no	√ hs	√	√			5000	4400
	CARDEA Ceramic C440[14]	4	no	√ hs	√	√			5000	4400
	CARDEA Z440 TUF Gaming All.[13]	4	no	no	√				5000	4400
	T-CREATE Classic 3.0[13]	3	no	√ hs	√	√			2100	1700
	T-CREATE Classic 4.0[13]	4	no	√ hs	√	√			5000	4400
Transcend	110S	3	√	√	√				1700	1400
	112S	3	√	√	√				1700	1400
	110Q	3	√	√	√				2000	1500
	220S	3	√	√	√	√			3400	2100
	240S[13]	4	no	√ hs	√				3800	3200
	250S[13]	4	no	√ hs	√	√			7100	6500
	MTE632T	3	√	√					1700	900
	MTE652T/MTE652T-I	3	√	√					2100	1250
	MTE652T2	3	√	√					2100	1250
	MTE662T/MTE662T-I	3	√	√	√	√			3500	2700
	MTE662T2	3	√	√	√	√			3500	2700
	MTE662A	3	√	√	√	√			3400	2300
	MTE662P/MTE662P-I	3	no	√	√				3400	2300
	MTE670T/MTE670T-I	3	√	√	√				2100	1600
	MTE672A	3	√	√	√				2100	1600
	MTE710T/MTE710T-I	4	√	√	√	√			3800	3200
	MTE712A/MTE712A-I	4	√	√	√	√			3800	3200
	MTE720T	4	√	√	√	√			7200	6500
WD	PC SN520[4] (discontinued)	3(x2)	√	√					1700	1450
	CL SN520	3(x2)	√	√					1700	1400
	PC SN530[4]	3	√	√	√				2400	1950
	IX SN530[4]	3	√	√	√	√			2500	1800
	PC SN540	3	√	√	√	√			3500	3000
	PC SN720 (discontinued)	3	√	√	√				3400	2800
	PC SN730	3	√	√	√				3150	2100
	PC SN740[11]	4	√	√	√	√			5150	4850
	PC SN810[11]	4	√	√	√	√			6600	5000
	Green SN350	3	√	√	√	√			3200	3000
	Blue SN500[6] (discontinued)	3	√	√					2400	1950
	Blue SN550[6] (discontinued)	3	√	√	√	√			2400	1950
	Blue SN570	3	√	√	√	√			3500	3500
	Red SN700	3	√	√	√	√	√		3400	3100
	Black SN750	3	√[3]	√[7]	√	√	√		3400	2900
	Black SN750 SE[6,11]	4	√	√	√				3600	2830
	Black SN770[6,11]	4	√	√	√	√			4000	2000[8]
	Black SN850[6,11]	4	√[3]	√ hs	√	√			7000	5300[8]
	Black SN850X[6,11]	4	√[3]	√ hs	√	√	√		7300	6600[8]
WD (SanDisk)	Extreme Pro	3	√	√	√	√			3400	2900

COMPANY	NVMe M.2 SERIES (2280 Only)	PCIe Gen	M.2 8x4 M.2 4x4 M.2 2x4 Echo 20	NVMe Dock[12]	1TB	2 TB	4 TB	8 TB	Read[5] (MB/s)	Write[5] (MB/s)
XPG (ADATA)	IM2P33E8 (discontinued)	3	√	√	√	√			3300	2800
	Atom 30[13]	3	no	√hs	√				2500	2000
	Atom 40[13]	3	no	√hs	√	√			3500	3000
	Atom 50[13]	4	√	√	√	√			5000	4500
	Gammix S5[13]	3	no	√ hs	√	√			2100	1800
	Gammix S11 Pro[13]	3	no	√ hs	√	√			3500	3000
	Gammix S7[3]	3	no	√ hs	√	√			3500	3000
	Gammix S50 Lite[6,13]	4	no	√ hs	√	√			3900	3200
	Gammix S70	4	no	no[15]	√	√			7400	6800
	Gammix S70 Blade	4	no	no[15]	√	√	√		7400	6800
	SX6000 Lite	3	√	√	√				1800	1200
	SX6000 Pro	3	√	√	√	√			2100	1500
	SX8100	3	√	√	√	√	√		3500	3000
	SX8200 Pro	3	√	√	√	√			3500	3000
	SX8800 Pro	3	√	√	√				3500	2700
	Spectrix S20G[13]	3	no	√ hs	√				2500	1800
	Spectrix S40G[13]	3	no	√ hs	√	√	√		3500	3000

1. Versions shipping in 2020+ are compatible with macOS. Older SSD modules may require a firmware update , which must be installed under Windows.
2. These modules are longer than 80mm, and Sonnet accomodates only 80mm SSD M.2 devices.
3. For PCIe cards, version without heat sink (or must remove heat sink). For Dual NVMe Dock, version with heat sink recommended
4. 80mm version only.
5. Speeds above 3500MB/s are achievable only in Sonnet Gen 4 PCIe cards in a Gen 4 slot
6. Not compatible with macOS.
7. The version with heat sink version does not fit NVMe Dock (SSDs limited to 11mm tall and 24mm wide).
8. When used via Thunderbolt, write speed limited to ~1200MB/s.
9. Power loss protection capacitors do not fit under heat sink
10. Write Speeds are much slower than rated speed when used with M1 Macs.
11. For full speed, the 6/10/2022 firmware update – which must be installed under Windows – is Firmware Update
12. Sonnet NVMe Storage Dock connects each SSDs at x2 PCIe Gen 3, so Read/Write speed limited to ~1400MB/s each.
    Speed of ~2800MB/s can be achieved with a software RAID 0 of two SSDs.
    Heat sink recommended, but not required.
13. These SSDs come with a pre-installed heat sink. They are recommended to use on the Echo NVME Thunderbolt Dock.
    They do not fit Sonnet M.2 PCIe cards, which have very efficient card heat sinks intended for SSDs without a pre-installed heat sink.
14. SSDs (single and/or double sided) are too tall to fit in our PCIe cards.
15. Per manufacturer, these SSDs do not work in external enclosures.
16. We recommend you check for Samsung Firmware Updates

• M.2 4x4 Silent Edition with Serial Numbers A01298060001200 to A01298060001698 inclusive, and A01298070001890 and above are compatible.
• M.2 4x4 Silent Edition with other serial numbers, and all M.2 4x4 Blower Edition require a thermal pad modification
• Sonnet has tested many, but not all, of the SSDs listed above. We rely on manufacturers' specifications and cannot guarantee full compatibility or rated performance, as listed speeds are typically based on the highest-capacity models.
• Additionally, SSD manufacturers may update the controller, cache, or other internal components without changing the part number. As a result, an SSD we successfully tested yesterday may differ from the same model shipped tomorrow, potentially affecting compatibility.

17 March 2025

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