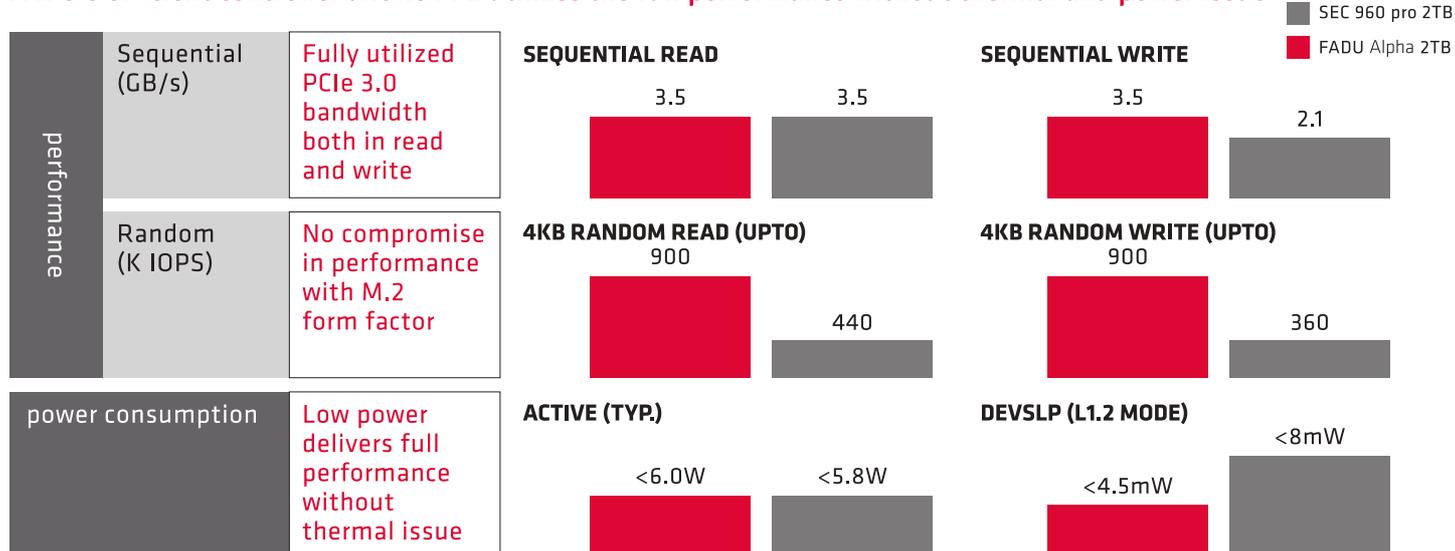


# FADU ALPHA

## BEST PERFORMING M.2 CONSUMER SSD

FADU's efficient controller allows M.2 utilizes the full performance without thermal and power issue



M.2 SSD is very common and useful form factor. However, many existing products didn't solve the issue of thermal and power. Thanks to its innovative architecture, FADU Annapurna controller consumes >30% less power and deliver the unmatched performance without any thermal and power issue. Also even in absolute performance, FADU Alpha achieves the totally different level of IOPS. FADU Alpha will define the standard of M.2 SSD

### FADU ALPHA

<b>Interface</b>	PCIe Gen 3.0 x4, NVMe 1.3					
<b>Hardware</b>	Controller	FADU Annapurna Controller				
	Dimension	80 x 22 x 2.5/3.9mm (Single/Dual)				
	Form Factor	M.2 2280				
	NAND	3D TLC NAND				
	Capacity	256GB	512GB	1TB	2TB	4TB
<b>Performance (up to)</b>	Seq. Read (MB/s)	2,200	3,500	3,500	3,500	3,500
	Seq. Write (MB/s) (SLC buffer)	800	1,600	3,200	3,500	3,500
	Ran. Read (K IOPS)	150	290	580	900	900
	Ran. Write (K IOPS)	200	410	820	900	900
	Active(R/W, Avg.)	Typ. < 5W		Typ. <6W		Typ. < 7.5W
	Idle (PS3)	Typ. <50mW				
	L 1.2 DEVSLP (PS4)	Typ. < 3mW		Typ. <4.5mW		Typ. < 7.5mW
<b>Data Security</b>	AES 256-bit for User Data Encryption, TCG/Opal					
<b>Key features</b>	TRIM(Required OS support), S.M.A.R.T, NVMe command, NVMe MI					
<b>Reliability</b>	MTBF	1.5 million hours				
<b>Warranty</b>	Total Bytes Written	100	200	400	800	1,600
	Period	3 years limited				

