



## Elevating Speed for a New Era

### AI858 PCIe 5.0 M.2 SSD

AI858 PCIe Gen5 SSD delivers next-level performance with up to 14,000/13,000MB/s speeds and capacities from 1TB to 4TB. Powered by TSMC's 6nm controller with DRAM cache and SLC caching, it ensures stable, efficient performance for AI workloads, PS5 expansion, and latest Intel and AMD platforms.

#### Features

- Wide capacity range from 1TB to 4TB
- Compliant with NVMe 2.0 standard
- SM2508 controller with TSMC 6nm process controller for low power consumption
- DRAM cache buffer and SLC caching for enhanced transmission speed
- Optimized LDPC engine for superior 3D NAND error correction
- RAID engine for multi-page NAND flash data protection
- 7.5 mm aluminum heatsink with 10% temperature reduction
- AI workload optimization and PlayStation 5 compatibility



#### Ordering Information

Capacity	Part Number	EAN Code
1TB	AGI1TOG00AI858-CB	4718009615304
2TB	AGI2TOG00AI858-CB	4718009615311
4TB	AGI4TOG00AI858-CB	4718009617285





## Specifications

Form Factor	M.2 2280
Interface	PCIe Gen5 x4
Capacity	1TB / 2TB / 4TB
NAND Flash	3D NAND
Sequential Read/Write	1TB: 14,000 MB/s , 10,000 MB/s 2TB: 14,000 MB/s , 13,000 MB/s 4TB: 14,000 MB/s , 13,000 MB/s
Total Bytes Written	1TB: 750TB 2TB: 1,500TB 4TB: 3,000TB
Sequential Read (PS5)	1TB: 6,000 MB/s 2TB: 6,000 MB/s 4TB: 6,000 MB/s
Controller	SMI SM2508
Operating Voltage	3.3V
Operating Temperature	0°C ~ 70°C
Humidity	5% ~ 98%RH (Non-condensing)
Operating Vibration	15G(7 ~ 2000Hz)
Storage Temperature	-40°C ~ 85°C
Product Dimensions (L x W x H)	80 x 22 x 11mm(with heat sink) 80 x 22 x 2mm(w/o heat sink)
Package Dimensions (L x W x H)	131 x 101 x 16mm
Product Weight	23g (with heat sink) 5g (w/o heat sink)
Package Weight	47g
Shock Resistance	1,500G / 0.5ms
MTBF	1.6M hours
Certifications	CE, FCC, BSMI, RoHS
Warranty	Limited 5 years
Heat Sink Color	Black



\*Performance may vary based on SSD capacity, hardware test platform, test software, operating system, and other system variables

