FORESEE®

XP2000 PCIe Gen4 SSD



Product Functions

- PCIe Gen4x4 DRAM-less architecture
- Supports L1.2 low power consumption
- S.M.A.R.T data monitoring technology
- TCG OPAL 2.0 encryption
- HMB function
- Pyrite SSC security features (Pyrite 2.0)
- Supports online firmware update

Applications

Laptop

Desktop

Ultra thin notebook

All-in-one computer

IPC

Gaming laptop

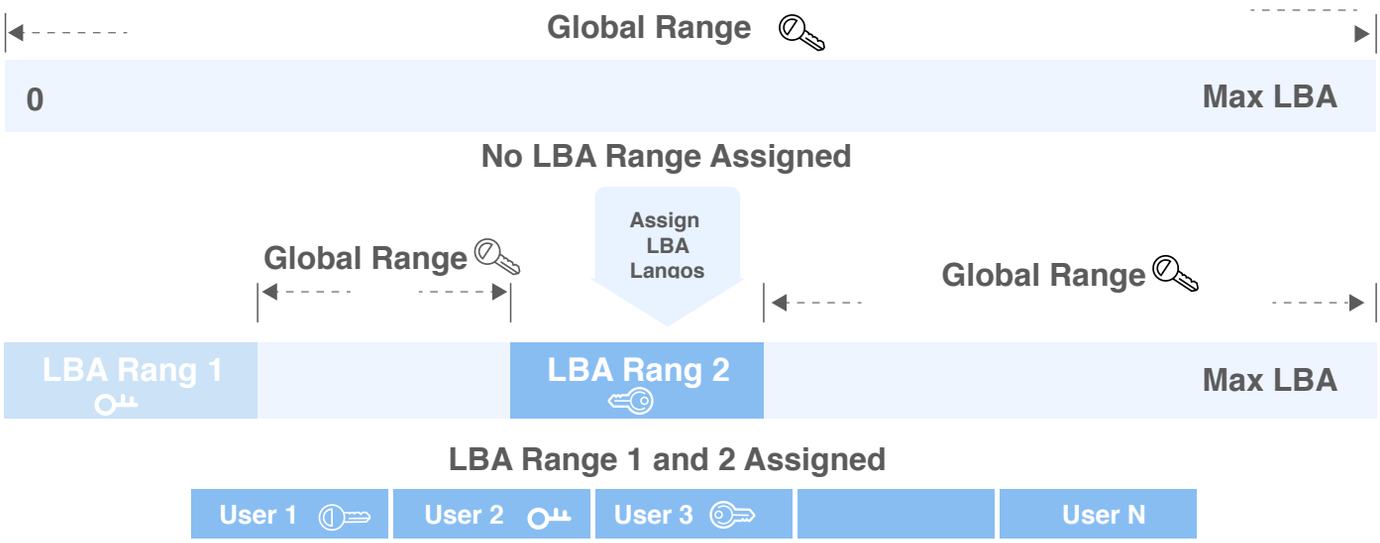
Handheld game console

This version is to be updated on March 17, 2023.Actual conditions are subject to the Longsys website.

Product Advantages

TCG OPAL 2.0 encryption

This function facilitates fast encryption/decryption by processing information in the device without a host, thereby minimizing the risk of data leakage without compromising system performance. Moreover,TCG OPAL 2.0 protects information security through easy-to-use windows, featuring functions such as setting boot permissions and block management permissions,as well as quickly restoring factory settings.



Pyrite 2.0 security feature

The Pyrite SCC provides specific access restrictions on user data without specifying encryption requirements, to meet extensive application and market needs.This protocol supports commands in the same way as the Opal SSC, Opalite SSC, and Ruby SSC protocols.Building upon the foundation of Pyrite 1.0, Pyrite 2.0 adds a more rigorous data deletion mechanism and data protection function.This security feature is used extensively in storage devices throughout Asia, Europe and the United States.

Listed in AVL

• AMD • Google • Intel Modern Standby • UNH-IOL • Ulink Protocol • TCG OPAL2.0 • PCI-SIG • TCG Pyrite 2.0

XP2000 PCIe SSD Line-up

Model(XXXX Means Capacity)	XP2000FXXXX	**DRAM**	DRAM-less
Interface	PCIe Gen4*4	**Dimension (W*L*H)**	22.0*80.0*2.25mm
Type	M.2 2280	**Vibration**	3.08G@7~800Hz
Flash Type	3D TLC	**Shock**	1500G@0.5ms
Capacity	256GB / 512GB / 1TB	**MTBF**	>1.5 million hours
Sequential R/W (MB/sec, max.)*	Up to 5200MB/s / 4700MB/s	**IOPS***	Up to 800K / 940K
Operation Temperature	Standard Grade: 0°C ~ 70°C	**Storage Temperature**	-40°C ~ 85°C
Max. Power Consumption	5.0W	**Warranty**	Three-years warranty
Max. Channels	4	**External DRAM Buffer**	N

*Data is sourced from internal testing of Longsys. The actual performance may vary between different devices

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