



# NVMe U.2 Enterprise SSD

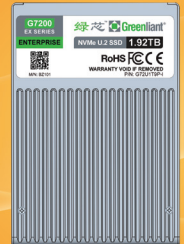
G7200 Series

Product Brief

## Product Description

Greenliant's G7200 high-capacity Enterprise SSDs are designed for primary storage applications that require high reliability with sustainable low-latency and high IOPS performance. These NVMe U.2 SSDs surpass traditional HDDs in their performance, security and ruggedness. G7200 products support AES-256 hardware encryption to protect sensitive user data and include power interrupt data protection to help prevent data loss during unexpected power failures. Greenliant's NVMe U.2 SSDs also implement on-chip adaptive RAID for the highest levels of data integrity.

Greenliant's flagship EX Series Industrial Enterprise SSDs designed with EnduroSLC™ Technology provide ultra-robust data retention, consistent performance throughout product life, and can reach ultra-high write endurance of 30 DWPDP for 5 years operating over a wide range of temperatures from -40°C to +85°C. With advanced features and outstanding quality of service, Greenliant's EX Series NVMe U.2 industrial enterprise storage products are ideal for mission critical, I/O intensive applications.



## Key Features

### Industry Standard PCIe Interface

- Supports PCIe 3.0x4
- Compatible with NVMe 1.2
- Hot pluggable support

### Data Security

- AES 256-bit encryption
- End-to-end data path protection
- Secure Erase (data sanitization)

### Ultra-High Endurance (EX Series)

- 30 Drive Writes Per Day (DWPDP) for 5 years

### Dedicated Power Interrupt Data Protection

- Prevents data corruption when power is lost

### High Reliability

- Unrecoverable Bit Error Rate (UBER): 1 sector per 10<sup>27</sup> bits read
- On-Chip Adaptive RAID for reliable failover

### Fast Read/Write Performance

- Sequential Read: up to 2,600 MB/s
- Sequential Write: up to 1,900 MB/s
- Random Read (4KB): up to 600K IOPS
- Random Write (4KB): up to 160K IOPS
- Read/Write Performance Consistency: up to 90%/90% (99.9%)

### Low Read/Write Latency

- Delivers sustainable, low latency for optimized performance
- Sequential Read/Write: 50µs/20µs (typical)
- Random Read/Write: 105µs/20µs (typical)

### Advanced Flash Management

- Dynamic and static wear leveling algorithms maximize product lifespan
- Supports TRIM commands to remove invalid data which is no longer in use

### Built-in ECC

- Advanced bit error detection and correction

### SSD Lifespan Monitoring

- Enables SMART command-based alerts indicating the remaining useful product life

### UEFI Boot Support

- Bootable with major operating systems

### Supported Operating Systems

- CentOS 6.5/7.0/7.4/7.5 64-bit
- RHEL 6.5/7.0/7.4/7.5 64-bit
- MS Windows Server 2008/2012/2016 64-bit
- VMware ESXi 6.0/6.5/7.0
- NeoKylin
- Deepin

### Operating Temperature

- EX Series: -40°C to +85°C
- PX Series: 0°C to +55°C



## Applications

- Energy / Power
- Transportation
- Cloud computing
- Enterprise datacenter
- Online transaction processing (OLTP)
- Industrial control
- Communications
- Web / Applications hosting
- Content delivery network (CDN)
- Computer aided design (CAD)
- Aerospace
- Defense
- High-performance database
- Virtual desktop infrastructure (VDI)
- Big data analytics

## NVMe U.2 Industrial Enterprise Storage Product Lineup

Part Number	G72UxxxP	G72UxxxR
Interface	PCIe Gen3x4	
Product Series	<b>EX</b>	<b>PX</b>
NAND Configuration	<b>EnduroSLC™</b>	TLC (3D NAND)
Capacity	800GB, 960GB, 1.6TB, 1.92TB	960GB, 1.92TB, 3.84TB
DRAM	Yes	
Voltage	12V	
Operating Temperature	Industrial: -40°C to +85°C	Datacenter: 0°C to +55°C
Storage Temperature	-55°C to +110°C	-40°C to +85°C
Endurance	30 DWPD for 5 years	1 DWPD for 5 years
Data Retention	10 years / 1 year at end of device life (JESD218B.01)	
Max Sequential Read/Write (MB/s)	2,600 / 1,900	
Form Factor / Dimensions (mm)	2.5-inch / 100.5 x 69.85 x 9.5	
Features	On-chip adaptive RAID for reliable failover Dedicated power interrupt data protection Advanced ECC for 3D NAND Data purge / instant erase AES 256-bit encryption	

Note: G7200 PX Series planned for production in 1H20

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