



Panther Series SSDs for Military and Industrial Markets

Withstand Rugged Industrial Conditions with Solid State Storage



Reliable Performance for Military Applications

Military applications are extremely diverse—from aerospace solutions and UAV, Surface-to-Air Missile systems, Navy communication, Vehicle installations and rugged equipment. However, the storage requirements of these applications are surprisingly similar and often result from an overwhelming need for reliable performance in difficult conditions. Hard disk drive (HDD) solutions have always struggled to meet these requirements. So while HDDs are still used in the military market today, it is no surprise that developers of military and industrial applications have been early and key adopters of solid state drive (SSD) technology.

Other Critical SSD Features

Reliable performance is just the beginning—SSDs have several other key features critical to industrial applications. SDK Systems offers Panther series SSDs in a variety of form factors that deliver surprisingly high capacities in very small footprints. Panther SSD provides incredibly high write endurance for applications that require long-term lifecycles or heavy write workloads. The Panther SSD also uses a Power Failure Protect, Over Load Protect; this helps the drive remain within operating parameters. Optional Built-In UPS to keep the data safety.

Ideal Applications:

- Aerospace
- UAV/UAS
- Data Recorder
- Data Storage
- Marine Computer
- Military Vehicle
- Surface-to-Air Missile systems
- Rugged Computers



Why Panther for SSDs ?

We using world leading brands NAND Flash:

Micron, Toshiba, Samsung.
Our customers have the assurance of working with the world's leaders in NAND Flash design. Our expertise in NAND technology sets us apart as a integrated supplier with the unique ability to ensure end-to-end quality and optimize our SSDs to work with best NAND components.

Extensive testing – Our rigorous product testing translates to predictably reliable, high-quality drives.

Proven start-to-finish quality – From component design to fabrication to the finished package device, our stringent quality requirements, significant investments in SSD test equipment, and advanced NAND-management algorithms mean that reliability is literally built into every Panther SSD.

Key Benefits

Reliability

Durable designs with no moving parts withstand extreme shock and vibration.

Responsiveness

Significantly faster boot, file, and application load times result in faster response times than traditional hard drives.

Low Power Consumption

SSDs consume significantly less power than typical hard drives, extending battery life.

Extended Temperature Ranges

Unlike most hard drives, our SSDs can operate in extreme environments from -40°C to 85°C.

Tiny and Lightweight Form Factors 2.5" caseless form factors provide high-capacity storage in tight spaces.

Robust Data Safety

The Panther Power Failure Protect, Over Load Protect, Super Capacitor (UPS) to keep the data safety

Panther SATA SSDs Ideal for Military Applications

| Model | Density | Description | Operating Temperature** |
|--------------------------|---------|--|-------------------------|
| SC-25ETS3C64MIL | 64GB | 2.5" SATAIII 64GB, NAND SLC, -40~+85°C, meet MIL-STD-810, Conformal Coating | -40°C to +85°C |
| SC-25ETS3C128MIL | 128GB | 2.5" SATAIII 128GB, NAND SLC, -40~+85°C, meet MIL-STD-810, Conformal Coating | -40°C to +85°C |
| SC-25ETS3C256MIL | 256GB | 2.5" SATAIII 256GB, NAND SLC, -40~+85°C, meet MIL-STD-810, Conformal Coating | -40°C to +85°C |
| SC-25ETS3C512MIL | 512GB | 2.5" SATAIII 512GB, NAND SLC, -40~+85°C, meet MIL-STD-810, Conformal Coating | -40°C to +85°C |
| With Built-in UPS | | | |
| SC-25ETS3C64MILU | 64GB | 2.5" SATAIII 64GB, NAND SLC, -40~+85°C, meet MIL-STD-810, Conformal Coating, Built-in UPS | -40°C to +85°C |
| SC-25ETS3C128MILU | 128GB | 2.5" SATAIII 128GB, NAND SLC, -40~+85°C, meet MIL-STD-810, Conformal Coating, Built-in UPS | -40°C to +85°C |
| SC-25ETS3C256MILU | 256GB | 2.5" SATAIII 256GB, NAND SLC, -40~+85°C, meet MIL-STD-810, Conformal Coating, Built-in UPS | -40°C to +85°C |
| SC-25ETS3C512MILU | 512GB | 2.5" SATAIII 512GB, NAND SLC, -40~+85°C, meet MIL-STD-810, Conformal Coating, Built-in UPS | -40°C to +85°C |
| MLC NAND | | | |
| SC-25ETS3C512M | 512GB | 2.5" SATAIII 512GB, NAND MLC, -40~+85°C, meet MIL-STD-810, Conformal Coating | -40°C to +85°C |
| SC-25ETS3C1024M | 1024GB | 2.5" SATAIII 1024GB, NAND MLC, -40~+85°C, meet MIL-STD-810, Conformal Coating | -40°C to +85°C |

Learn More

Contact us at sales@sdksys.com to learn more about how Panther SSDs can benefit your military application.

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