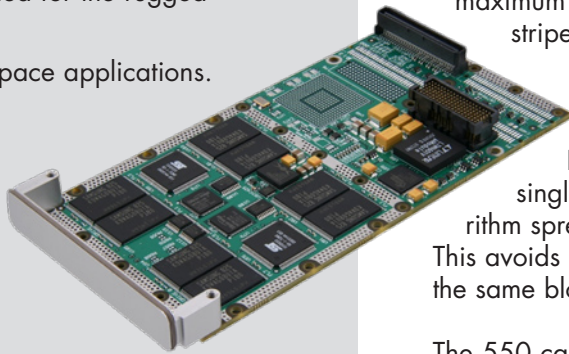


XMC/PMC-550

Rugged SATA Solid State Drive

The XMC/PMC-550 is a high performance, reliable and power efficient NAND Flash solid state drive solution ideally suited for the rugged defense and aerospace applications.



The 550 is a rugged high performance NAND Flash solid state drive, available in an XMC (VITA42.3) or a PMC (IEEE1386.1) form factor.

The 550 is visible as two independent SATA drives providing up to 32 GBytes of disk space. Available configurations come in 8, or 32 GBytes.

Through multi-tasking technology, the 550 offers transfer rates of up to 30 Mbytes/sec for simultaneous read to each drive. For maximum throughput, RAID 0 is supported through software to stripe data across the two SATA drives.

The 550 supports industry standard ECC NAND Flash correction as well as wear leveling on card. Error correction codes can correct up to 8 random single-bit error per 512-byte sector. The wear leveling algorithm spreads program/erase cycles evenly across the media. This avoids premature device failure due to frequent erase cycles on the same block of Flash memory.

The 550 can also support hardware write protect as an enhanced level of security to prevent unintentional data overwrite.

The industry standard SATA interface allows the 550 to be easily integrated with most host and carrier cards for popular operating systems, including VxWorks™, GPPLE Linux™ and WinXPe.

Learn More

Web / sales.cwembedded.com

Email / sales@curtisswright.com

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WRIGHT** Controls
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XMC/PMC-550

Features

- ◆ XMC or PMC NAND Flash storage device
- ◆ XMC - x1 lane PCIe
- ◆ PMC - 32-bit, 33/66 MHz
- ◆ Two drives with total capacity up to 32GB
- ◆ Up to 30 MB/s simultaneous transfer rate for each drive
- ◆ High performance with RAID 0 support, up to 50 MB/s
- ◆ ECC NAND Flash correction, up to 8 random-bit error correction
- ◆ Industry standard page management for wear leveling algorithm, and bad block handling
- ◆ Hardware Write Protect
- ◆ VxWorks, GPPLE Linux, WinXPe
- ◆ Available in Air cooled and Conduction Cooled
- ◆ Power Consumption: <2.5 W Standby, <6 W Max



PMC-550



XMC-550

