

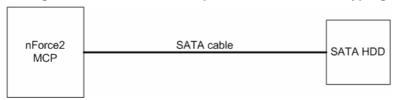
# X-Wall MX Test Report – Part One

Date: 2007/04/11

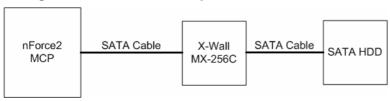
### Test Configurations

| Mother Board | MSI K7N2 Delta 2   |
|--------------|--|
| CPU          | AMD Sempron  |
| X-Wall model | X-Wall MX-256C, AES 256-bit strength under CBC mode of operation |
| Memory       | 256MB(DDR)   |
| HDD          | Maxtor 6Y160M0, 160GB, SATA 1.5Gbit                              |
| os           | Windows XP Professional with SP1                                 |
| SATA Host    | nVidia nForce2-MCP, SATA 1.5Gbit                                 |

## Configuration 1: Test the drive performance without cryptographic operation



## Configuration 2: Test the drive performance with X-Wall MX-256C



#### ■ Functional Tests

| BIOS HDD Detection                       | Pass |
|--|------|
| Windows XP Installation                  | Pass |
| Solaris 10 Installation                  | Pass |
| Linux Enterprise AS 4 Installation       | Pass |
| Linux Fedora (Free edition) Installation | Pass |

### ■ Test Programs (under windows XP)

- > PCMark 2002
- SiSoftware Sandra 2004
- ATTO Disk Benchmark

# ■ Performance Test Result (under Windows XP)

PCMark 2002

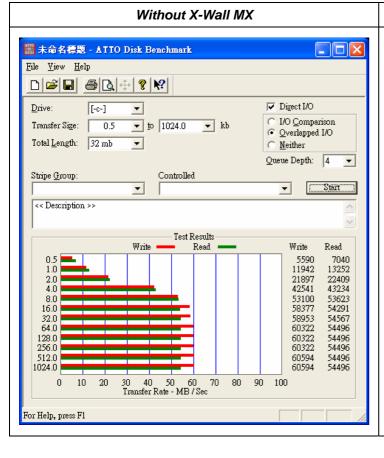


| Score         |      | 1545 | 1540 |
|---------------|------|------|------|
| Cache Write   | MB/s | 42.8 | 42.1 |
| Uncache Write | MB/s | 56.4 | 56.1 |
| Cache Read    | MB/s | 46.3 | 46.3 |
| Un Cache Read | MB/s | 54.4 | 55.0 |
| File Copy     | MB/s | 24.4 | 24.3 |

#### SiSoftware Sandra 2004

|                     |      | Without X-Wall MX | With X-Wall MX |
|---------------------|------|-------------------|----------------|
| Drive Index         | KB/s | 35959             | 36500          |
| Buffer Read         | MB/s | 101               | 82             |
| Sequential Read     | MB/s | 53                | 53             |
| Random Read         | MB/s | 8                 | 8              |
| Buffer Write        | MB/s | 109               | 100            |
| Sequential Write    | MB/s | 46                | 51             |
| Random Write        | MB/s | 19                | 18             |
| Average Access Time | ms   | 6                 | 6              |

#### > ATTO Disk Benchmark



#### 🧱 未命名標題 - ATTO Disk Benchmark <u>File Y</u>iew <u>H</u>elp ☑ Direct I/O [-c-] ▾ C I/O Comparison ▼ to 1024.0 Transfer Size: 0.5 • Overlapped I/O Total <u>L</u>ength: 32 mb Queue Depth: 4 Stripe $\underline{G}$ roup: Controlled Start ▼ << Description >> Test Results Write Write Read Read 0.5 1.0 5322 11121 6209 11629 22023 42541 58713 22750 4.0 40620 56055 8.0 59121 56137 56137 56191 32.0 64.0 60145 61008 128.0 256.0 64839 64839 56191 56191 56191 56191 512.0 64839 1024.0 64839 30 40 50 60 Transfer Rate - MB / Sec 0 10 100 For Help, press F1

With X-Wall MX