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Release: 02

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VERIFICATION REPORT

UP BOARD WITH GOODRAM mini mSATA 120GB BICS 3D NAND FLASH mSATA 128GB MLC NAND FLASH mSATA 256GB MLC NAND FLASH

Revision	Description	Date
01	First release	03/08/2017
02	Report updated with mSATA 128GB & 256GB MLC	14/09/2017

	Position	Name	Date	Signature
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1. Test purpose

Target of the test is to verify compatibility of AAEON UP board with GOODRAM:

- mini mSATA 120GB BICS 3D NAND FLASH
- mSATA 128GB MLC NAND FLASH
- mSATA 256GB MLC NAND FLASH

2. Test means

UP board (P/N: UP-CHT01-A10-0116), 1GB RAM, 16GB eMMC:









Power supply 5V, 400mA:





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UP USB2.0 to mSATA Converter Board







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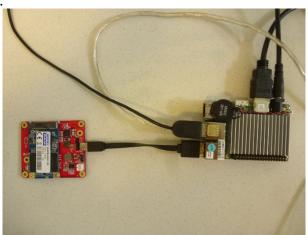
3. Test description

On customer device operating system Windows 8.1 64bit was installed. Due to device configuration (1GB RAM and 64bit BIOS) was no possible to check Windows 10 32/64 bits). SSD was installed into provided adapter and connected through USB port to device. Basic verification test was performed:

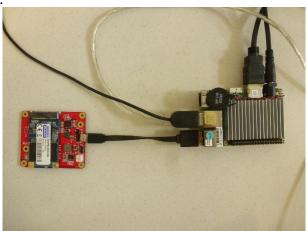
- SSD proper detection by system
- Write/Read functionality
- Transfer verification with benchmark programs.

4. Test setup (example photo)

mSATA 128GB MLC:



mSATA 256GB MLC:





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5. Test results

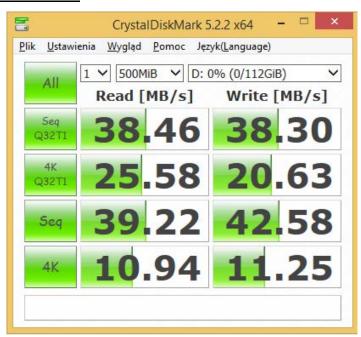
SSD was detected correctly by operating system (Windows 8.1 64bit) and works correctly (write/read files).

mini mSATA 120GB BICS 3D NAND FLASH

Maximum data transfer was limited by SATA adapter which works only in USB 2.0 standard.

ATTO: Disk Benchmark v3.05:







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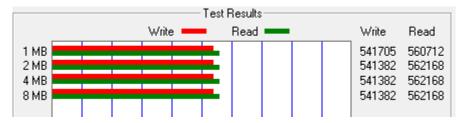
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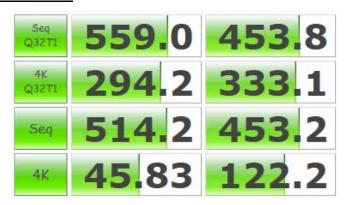
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To compare Goodram preform test of SSD on platform where interface didn't limit transfer. Results are as below:

ATTO: Disk Benchmark v3.05:







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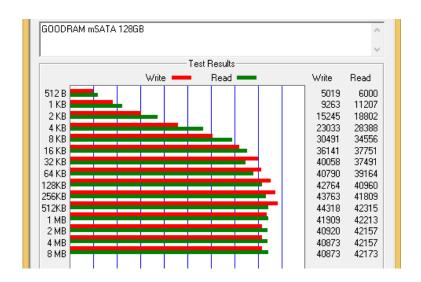
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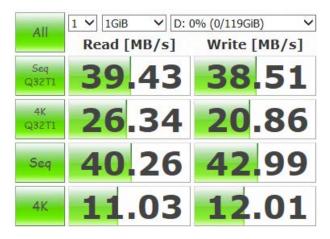
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mSATA 128GB MLC NAND FLASH

Maximum data transfer was limited by SATA adapter which works only in USB 2.0 standard.

ATTO: Disk Benchmark v3.05:







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Maximum data transfer was limited by SATA adapter which works only in USB 2.0 standard.

ATTO: Disk Benchmark v3.05:

mSATA 256GB MLC NAND FLASH

