LucidPort USB300Rev2-RDK

(USB3.0 to SATA II)

WDC Cavlar Green (3TB) and Blue (1TB)

Intel Ivy Bridge USB3.0 Host

Evaluation summary

LucidPort Technology, Inc. 485 E. Evelyn Ave., Sunnyvale, CA 94086 www.lucidport.com





USB300Rev2-RDK(LucidPort) and Intel Ivy Bridge USB3.0 Host WDC 3TB(green) and 1TB(Blue)

- LucidPort USB3.0 to SATA-II controller chip
 - o Board: USB300Rev2-RDK
- Setup:
 - Systems Manufactures: Giga-Byte, Asus and Dell
 - OS: Windows WinXp, Win7 and Win8
- USB3.0 Host chipsets:
 - Three (3) desktops with Renesas(NEC) host cards
 - OS: Win Xp, Win7 and Win8
 - Desktop with on board USB3.0 host chip
 - OS: Win7
 - Dell laptop computer with Renesas(NEC) USB3.0 (Express Card)
 - OS: Win8, Win7
 - Asus P8Z77-V with Intel IvyBridge chipset(two Intel USB3.0 ports and other USB3.0 host ports)
 - OS: Win7

Summary

Endurance TestsPass

Average run-time is 48 hours, no errors

USB hot plug and playPass

SATA-II hot plug and playPass

Functional testPass

In hours USB-IF testPass

- Performance results(Attachments)
 - Attachment#1: All Intel chipsets (non Ivy Bridge)
 - Attachment#2: Intel Ivy Bridge chipset computer
 - o Ivy Bridge chipset and Intel CPU, Core i5.
 - When USB300Rev2-RDK connects to Ivy Bridge chipset's USB3.0 host ports, the speed of USB300Rev2-RDK is about 10% to 15% faster than USB300Rev2-RDK connecting to USB3.0 host ports which from non Ivy Bridge chipsets

Note: 1. Win8 Customer Preview Release

with

2. Renesas (NEC) USB3.0 host slower CPU

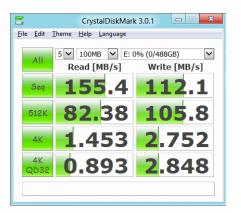
- 3. LucidPort USB300Rev2-RDK, USB3.0 to SATA-II
- 4. Intel Chip set

LucidPort USB300Rev2-RDK and Intel Ivy Bridge chip set USB3.0 host

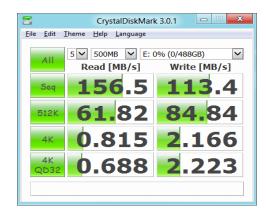
WDC Cavlar

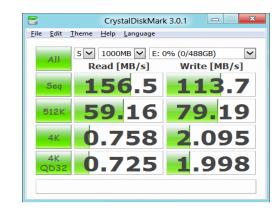
Green (3.0TB) and Blue (1.0TB)

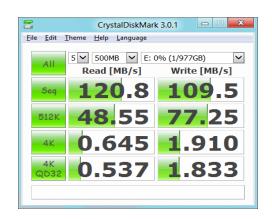
Blue (1.0TB)

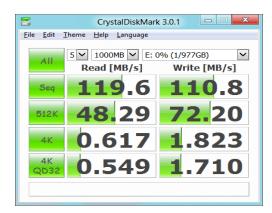


CrystalDiskMark 3.0.1









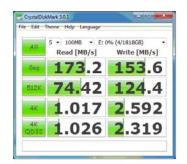




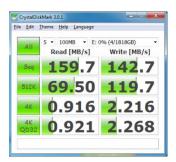


USB300Rev2-RDK with WDC Cavlar (3TB, Green)

Intel Ivy Bridge USB3.0 software



Other USB3.0 ports

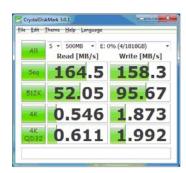


Intel's USB3.0 port shows higher performance, 10% to 15% higher than other USB3.0 Host

100M

USB300Rev2-RDK

Performance results between Ivy Bridge vs other USB3.0 hosts





Note: 1. Win7

2. Intel Ivy Bridge chip set with build in USB3.0 host, other USB3.0 host ports (external chip)

- 3. LucidPort USB300Rev2-RDK, USB3.0 to SATA-II
- 4. Intel's USB3.0 port shows higher performance, 10% 15% higher than other USB3.0 Host

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