

Third Wave Corporation Finds Solid Performance with Adaptec



Adaptec RAID 5805 combines with Intel SSDs to power Japan’s fastest PC

Introduction

Headquartered in Tokyo, Third Wave Corporation sells custom PCs and servers online and through its chain of DOSPARA PC stores located throughout Japan. Among their product offerings is the fastest high-end desktop PC in Japan, which features Intel solid-state hard drives (SSD) powered by an Adaptec 5805 Unified Serial® RAID controller.

The 8-port, low-profile Adaptec RAID 5805 for SATA and SAS drives utilizes industry-leading dual core RAID on Chip (ROC), 512MB of DDR2 write cache, and connectivity with the latest x8 PCI-Express to deliver over 250,000 I/Os and 1.2GBs. The Adaptec 5805 offers advanced data protection, connects up to 256 SATA/SAS disk drives through SAS expanders, and is compatible with more than 300 third-party devices.

Like all controllers in the Adaptec Series 5 family, the Adaptec 5805 features broad operating system support, including Linux and other open-source operating systems. Adaptec RAID drivers are embedded in the current Linux kernel. The Adaptec Linux Resource page (<http://www.adaptec.com/linux>) offers a repository of information for open source solutions, including the latest drivers, a list of officially supported Linux kernel distributions, and more.

Adaptec delivers the highest RAID 0 performance

In searching for a RAID controller to pair with the Intel SSD, Third Wave sought a controller that could deliver high data processing speeds and low power consumption. “We needed a

RAID controller with the ability to allow the SSD to reach peak performance while utilizing RAID 0, and to work properly without any issues once the RAID array has been created,” said Mr. Kentaro Mitsuyasu from the corporate division of Third Wave.

“We tested various RAID controllers but most of them had performance issues. We could not achieve the results we wanted.

One RAID controller emerged as the superior choice – the Adaptec RAID 5805, which demonstrated performance speeds up to 1119.73MB/second.”

“The combination of the Adaptec 5805 and Intel SSD not only managed to deliver the maximum performance, it also reached the same speeds on random reads as it did on sequential reads. In a system with a 1.2GHz processor, the combination performed better than any other RAID controller we tried. We were also surprised by the fact that the CPU usage ratio was less than 4%.”

“We think the combination will surely meet all of the expectations of users who are looking for the fastest desktop PC.”

Executive Summary

Challenge

Find a RAID controller that will reach maximum performance in high-speed PC systems

Solution

Adaptec RAID 5805 Unified Serial® (SATA/SAS) RAID controller

Results

Combined with Intel SSD to reach speeds up to 1119.73MB/second

“Adaptec has become our first choice in our high-performance systems.”

Mr. Kentaro Mitsuyasu
Third Wave Corporation

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Third Wave sees Adaptec in its future

Third Wave also found that the benefits of working with Adaptec extend beyond the hardware. "Adaptec Japan provided great support and helped us achieve these results. Adaptec Series 5 RAID controllers have become our first choice for our high-performance systems, and will appear in future system combinations, too."

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