

## DBS Cloud Edition

It's the 5G era, and to keep up, manufacturers need the unique advantages of big data gathering and analysis. But how can you keep up with maintenance and monitoring if you have to do it all by hand? The answer is simple. Apacer's Double-barreled Solution: Cloud Edition.

### ADVANTAGES OF DBS: CE

- Seamless integration with existing RDM platforms
- Alerts can be sent to administrators via email, SMS, or apps such as WhatsApp, Line or WeChat
- Anticipating the end of an SSD's lifespan means flawless data integrity
- Unexpected power cycling can be tracked easily
- OS recovery and firmware updating over the air
- Reduces maintenance costs and downtime
- Combats industrial pain points such as reputation damage, security vulnerabilities and business losses



### Common Industrial Pain Points:

 **Downtime**    **Blue Screen of Death**    **Dropped Frames**

are resolved by

### DBS Cloud Edition

#### Step 1

##### CoreAnalyzer2

Know your application Choose the most suitable F/W and SSD

+

#### Step 2

##### SSDWidget 2.0

Monitor your SSD Status Anticipate and mitigate SSD failures remotely

**Longer Lifetime, No Downtime.**

## HOW IT WORKS



### CoreAnalyzer2

The first part of the Double-barreled Solution is CoreAnalyzer2. After interpreting data from a customer's workload simulation, it scans Apacer's extensive product line and selects the most suitable SSD for the customer's needs. In some cases, it will also recommend firmware optimizations that may better serve the customer.



### SSDWidget2.0

Now that the ideal SSD has been selected, the customer can install it in their system. After doing so, the customer can carry out remote monitoring of the SSD via SSDWidget2.0. Many crucial aspects of the SSD can be observed via SSDWidget 2.0's dashboard, including total read/write cycles, temperature tracking, and so on. Perhaps most importantly, the estimated remaining lifespan of the SSD can be tracked. For this last option, the customer can choose to enable the sending of alerts when the SSD reaches certain operational benchmarks that indicate it's nearing the end of its operational lifetime. This is essential for maintaining data integrity, since an SSD can therefore be replaced before it stops working.

## DBS: Cloud Edition

DBS Cloud Edition allows DBS to run as a plug-in within Allxon and Advantech's RDM systems. All the functionality of the Double-barreled Solution is seamlessly integrated, and the ability to recover an OS is also included.

The DBS Cloud Edition presents all relevant data in the form of an easy-to-read dashboard interface.



## Common Causes for SSD Failures:



Extremely low or high temperatures



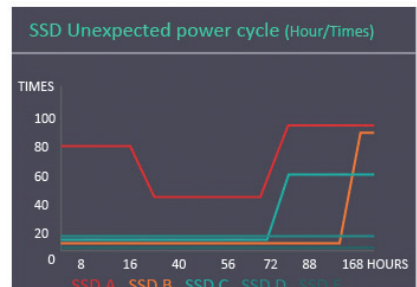
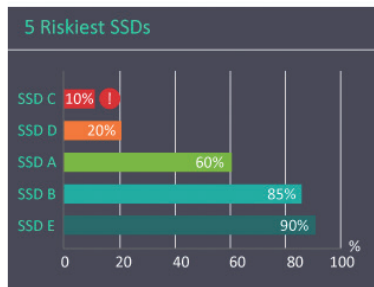
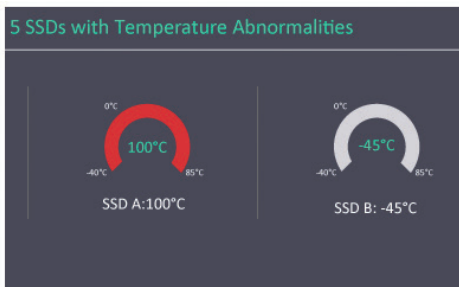
Unexpected power loss



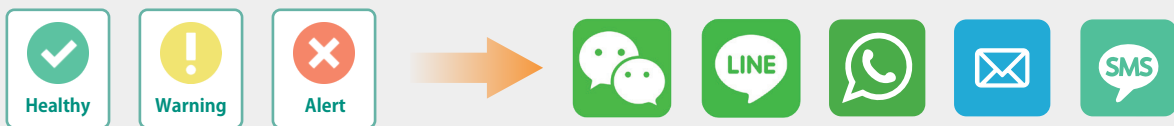
End of lifespan

the solution is ...

## Tracking the issues inside the DBS: CE dashboard, and then ...



... sending color-coded alerts via any messaging system you like. Just one glance at your smartphone or PC, and you can see an SSD's status.



Introducing

### Apacer's SV-25C Cloud Series SSDs

Available in a variety of form factors, these SSDs offer incredible power in compact designs. They're optimized for even the most data-intensive cloud applications, and have been customized so that remote monitoring, management and data analysis are all ready to go, right out of the box.



## Success Story

Many companies already benefit from the advantages of DBS Cloud Edition. Let's look at an example: a large cutting machine manufacturer located in Taiwan. In the past, a few machines in this manufacturer's factory had problems booting up normally.

When the factory switched to a smart manufacturing system recently, they introduced DBS Cloud Edition into the production line. After acquiring more data about daily operations, they found that many operators did not shut down the machine in accordance with normal procedures when they finished work, but rather just cut the power at the source. This situation is essentially the same as an unexpected power loss during a blackout, which can hurt the machine and the SSD. As a result, nearly 2% of the machines in the production line developed problems starting normally during working hours.

After DBS Cloud Edition helped them notice this trend, the cutting machine factory changed its management procedures. They added training sessions that reminded employees of the importance of following the standard shutdown method at the end of a shift. By reducing the management problems in this way, Apacer's intelligent platform not only made the production process more efficient, but also helped to save 30% of the total cost of ownership, making the enterprise more competitive when heading into a new era.

### WITHOUT DBS CLOUD EDITION



- \*Untraceable power outages
- \*Problems persist and lead to downtime
- \*Hardware damage leads to additional costs

VS

### WITH DBS CLOUD EDITION



- \*Unusual power supply events recorded
- \*Source of problem identified, retraining begins
- \*Total cost of ownership reduced by 30%

## Seamless Integration into Existing RDM Systems

Apacer collaborated with Advantech and Allxon in order to develop the DBS Cloud Edition. This offers customers greater choice in deploying an RDM system, and adds flexibility while retaining seamless integration.

