



PC-3000 SAS 6 Gbit/s Systems

"INSIDE COMPONENTS" - THE DESIGN PROVIDES AN ADDITIONAL MECHANICAL PROTECTION

THE BOARD TAKES UP TWO ADJACENT SLOTS
LED INDICATION OF ACTIVE CONNECTIONS



HIGH-EFFICIENCY
SAS 2.0 CONTROLLER



POWER PROTECTION

IF THE OVERCURRENT PROTECTION IS ACTIVATED, YOU WILL HEAR A BEEPING SOUND. THIS SOUND INDICATES THE NUMBER OF THE CHANNEL WHICH HAS BEEN POWERED OFF.



24-CHANNEL ADC
FOR OSCILLOSCOPE MODE

SATA PORTS x4

FOUR INDEPENDENT SAS 2.0 PORTS PROVIDE 6 GBIT/S, 3 GBIT/S AND 1.5 GBIT/S DATA TRANSFER MODES. THE CONNECTION OF HDD AND SSD WITH SAS/SATA INTERFACES IS AVAILABLE.

Power out x4

TO POWER THE HDDS, THE NEW INTELLIGENT POWER SUPPLY UNIT IS USED. IN ADDITION TO POWER CONTROL AND POWER SUPPLY FUNCTIONS, THE NEW UNIT ALLOWS MEASURING INSTANTANEOUS CURRENTS ON EACH OF THE FOUR CHANNELS (CH0...CH3) VIA +5V AND +12V. BUILT-IN PROTECTION ENSURES POWER-OFF IN CASE OF SHORT CIRCUIT OR EXCEEDING THE PERMISSIBLE VALUE OF THE CURRENT CONSUMPTION BY THE DRIVES, AS WELL AS IF THE NOMINAL VALUE OF THE +5V AND +12V OUTPUT VOLTAGES WILL GO BEYOND +/- 20%.

0603 AND 0402 PASSIVE COMPONENTS

SATA Power Connectors

THE POWER SUPPLY UNIT USES NEW POWER SATA PORTS FOR MORE RELIABLE POWER CONNECTION AND BETTER COMPATIBILITY WITH MODERN PC POWER SUPPLY UNITS.

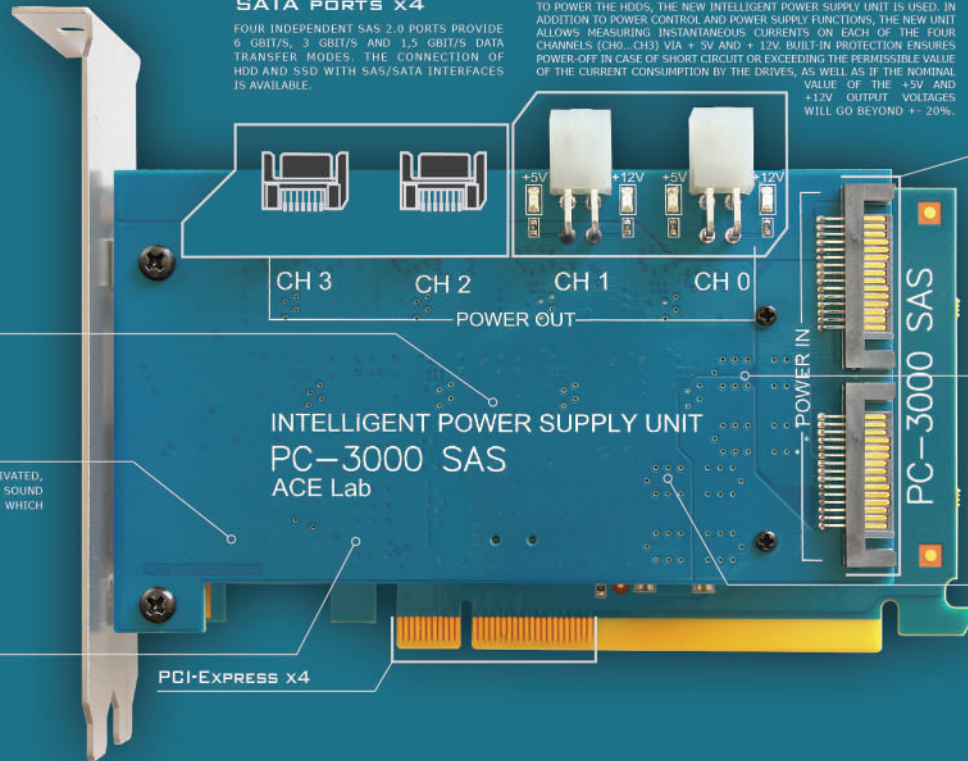


THE NEW VERSION OF THE PROTECTION KEY IS GENERATED BASED ON THE UP-TO-DATE CODE CONVERSION ALGORITHMS.



Power Supply

THE INTEGRATED SEMICONDUCTOR VOLTAGE CONVERTER ENABLES LOW NOISE LEVEL AND HIGH EFFICIENCY. IT HAS A SMALL SIZE AND CAN BE USED WITHOUT A RADIATOR.



The most sophisticated products to solve different issues with SAS drives

4-port tester-board

4 SAS
ports
with speed up to
600 MB/s

+

Fast imaging
of healthy
SCSI/SAS & SATA
drives

4 SAS HDD/RAID members

can be connected to the PC-3000 SAS at the same time.
The total number of connected RAID members can be increased with motherboard ports, image files and the PC-3000 Hybrid System.

The PC-3000 SAS is a hardware-software solution intended for diagnosing and repairing damaged SAS/SCSI HDDs. Together with other ACE Lab's software products, it forms the most sophisticated and the fastest systems to recover data from SAS/SCSI HDDs and RAID :

- ▶ PC-3000 SAS System (PC-3000 SAS + Data Extractor SAS)
- ▶ PC-3000 SAS RAID System (PC-3000 SAS + Data Extractor SAS RAID Edition)

What's special about the PC-3000 SAS 6 Gbit/s

- ▶ The possibility to work faster as a result of increase of the drive's reading speed to 6 Gbit/s
- ▶ More efficient diagnostics and analysis of the drives due to the oscilloscope functions of the new Intelligent Power Supply Unit
- ▶ Better compatibility with modern PC power supply units thanks to the new advanced SATA Power connectors
- ▶ The ability to access Firmware for solving issues with servers and storage systems based on SAS drives

The PC-3000 SAS System Kit:



1. PC-3000 SAS 6 Gbit/s controller	– 1 pc.
2. SAS SFF-8482/SATA/Molex (100cm) cable	– 4 pcs.
3. HDD SCSI (50 cm) power cable	– 4 pcs.
4. PC-3000 SAS software	– 1 pc.
5. User manual	– 1 book



Evidence recovery from HDD

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0x0000: 46 49 54 20 20 20 20 20
0x0010: 41 30 09 00 9D 00 10 00
0x0020: B3 00 42 4F 4F 54 53 45
0x0030: 02 00 46 49 54 20 23 20
0x0040: 04 00 4D 4 9 53 54 20
0x0050: 00 00 46 53 49 20 20 20
0x0060: 9B 00 53 56 5F 54 42 4C
0x0070: B4 00 52 52 30 5F 54 42
0x0080: B5 00 52 45 53 4F 5F 54
0x0090: 68 00 46 44 54 5F 54 42
0x00A0: 0C 00 43 48 4E 5F 54 42
0x00B0: 06 00 43 4F 4E 46 49 47

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DATA EXTRACTOR
THE BEST... EVER

Recovers more data than any other tool in the world

The Data Extractor professional software product is an essential part of the PC-3000 hardware-software systems intended for recovering data from SATA (Serial ATA), ATA (IDE) HDDs 3.5", 2.5", 1.8", 1.0", SAS (Serial Attached SCSI), SCSI, USB HDD, SSHD (Solid State Hybrid Drive), etc.

PC-3000 Systems allow reading only necessary data due to the powerful integrated functionality for logical analysis of file systems. This advanced technology greatly reduces the volume of the read data, the workload on damaged HDDs and the time required for data recovery. Thus, you can read the data even if a drive has considerable physical damage

Supported SATA/IDE HDDs:

Damaged (physically and logically), encrypted and healthy SATA/IDE HDDs of various vendors:

- ▶ Western Digital
- ▶ Seagate
- ▶ Samsung
- ▶ Maxtor
- ▶ Toshiba
- ▶ Quantum
- ▶ Fujitsu
- ▶ Hitachi

To recover data from HDD you need one of the following Systems:

- ▶ PC-3000 Express Systems
- ▶ PC-3000 UDMA Systems
- ▶ PC-3000 Portable Systems
- ▶ PC-3000 SAS Systems

Supported SAS/SCSI HDDs:

Damaged (physically and logically), encrypted and healthy SAS/SCSI HDDs of various vendors:

- ▶ IBM
- ▶ Seagate
- ▶ Hitachi GST
- ▶ Maxtor
- ▶ Fujitsu

Supported file and storage systems:

File systems: FAT, exFAT, NTFS, ReFS, HFS+, APFS, EXT2/3/4, XFS, F2FS, ReiserFS, BtrFS, VMFS, UFS1/2, ZFS

DVR Files Systems: WFS0.4, DHFS4.1

Virtual drives: flat (raw image), vhd, vhdx, vmdk, dmg

