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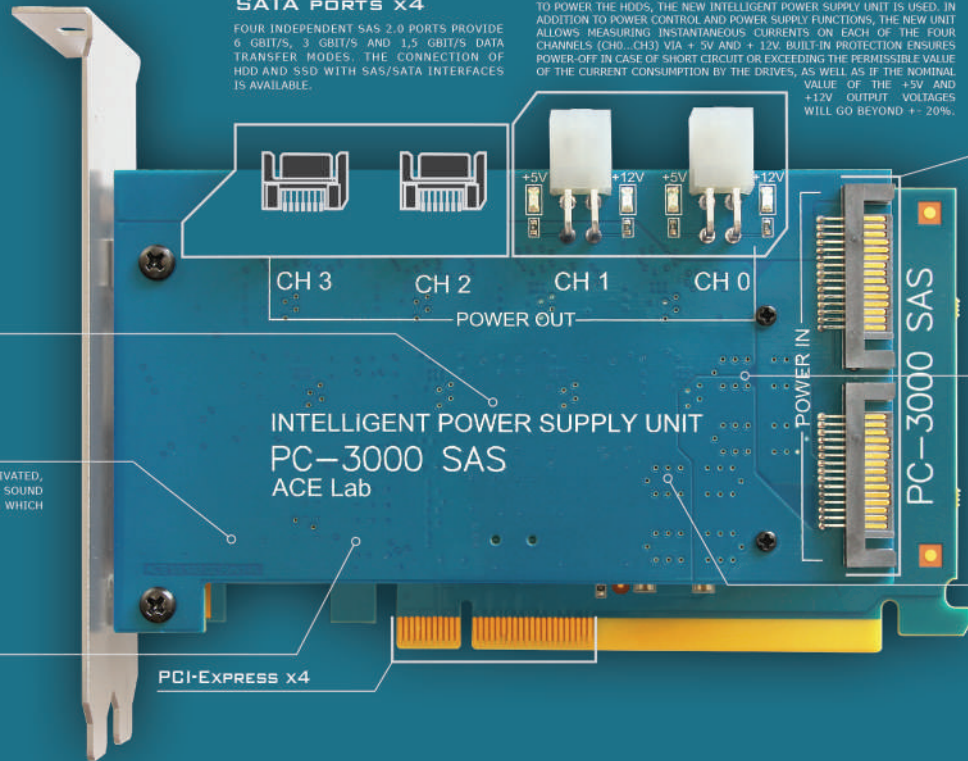
THE NEW VERSION OF THE PROTECTION KEY IS GENERATED BASED ON THE UP-TO-DATE CODE CONVERSION ALGORITHMS.

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 RAID

DATA EXTRACTOR

RAID EDITION

SIMPLY THE SMARTEST

	A	B	C	D
0	0	1	XOR	RS
1	3	XOR	RS	2
2	XOR	RS	4	5
3	RS	6	7	XOR

The easiest, fastest and smartest systems to recover data and digital evidence from RAID

The Data Extractor RAID Edition software product is an essential part of the PC-3000 Systems intended for recovering data from RAID arrays. The hardware-software combination enables to solve the most complex RAID cases when one or several drives have not only logical (deleted partitions, virus attacks, etc.) but also serious physical damages. The Data Extractor RAID Edition contains all the features of the Data Extractor.

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

► PC-3000 Express RAID/Ultimate System

► PC-3000 UDMA RAID/Ultimate System

► PC-3000 Portable RAID/Ultimate System

► PC-3000 SAS RAID System

Supported virtual RAID levels

► 0 (Stripe), 1 (Mirror), 1E Offset and Adjacent, JB0D, 4, 5, 5E, 5EE, 6 and 6-Adaptec

► Various combined levels: 10, 50, 51, 60 and others (due to the possibility to use virtual RAID array as a member)

► Software-based RAID and multi-disk storage systems: LDM and mdadm structure analysis, WSS (Windows Storage Spaces), ZFS RAID-Z, BtrFS RAID, Apple Fusion Drive (HFS+, APFS)

► Custom configurations that are set by user with the tabular (matrix) presentation

0	1	XOR	2	3	XOR
5	XOR	4	7	XOR	6
XOR	8	9	XOR	10	11

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