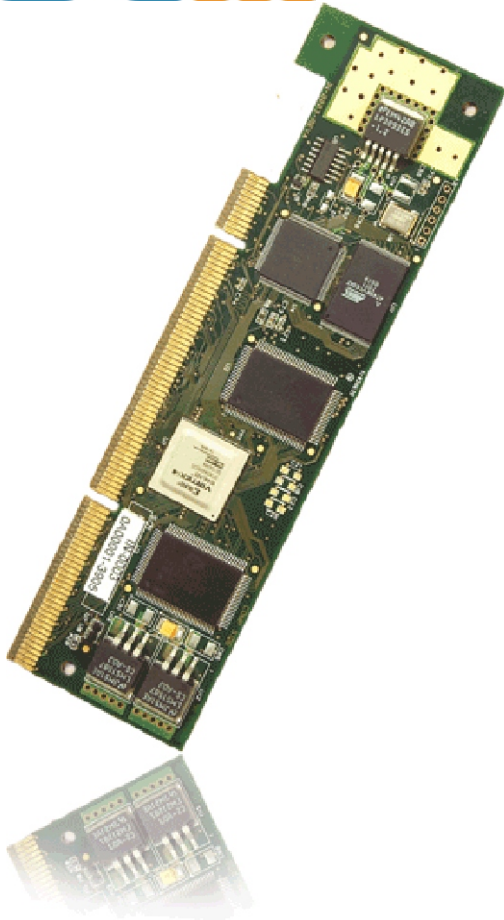


# SC300



## Introduction

Continuing explosion of enterprise data keeps putting pressure on the computing infrastructure. This requires IT departments to keep adding more storage, whether direct attached or on a SAN or in NAS. Simultaneously, all this data must be backed up and archived. Due to 24x7 operation, backup windows continue to shrink. System administrators are having to backup more and more data in less and less time.

One key trend that has emerged from this situation is that inexpensive ATA disks are being utilized to augment or replace tape based backup systems. While disk offers substantial advantages in performance and ease of use, it remains more expensive than tape. Since most

enterprise data is compressible, it is sensible to use compression to augment disk storage to reduce total cost. In fact, tape drive manufacturers have been using hardware compression for years to enhance speed and capacity of tape drives. A similar solution is needed for disk based backup systems. Indra Networks' StorCompress product line fills that gap.

Data communications has also become important in recent years, as events of September 11, 2001 have demonstrated the importance of offsite data replication. Bandwidth used for replication is expensive and compression can cut that cost in half. The StorCompress product line can be useful in such applications, also.

## Hardware Compression Engine

The StorCompress product line consists of compression accelerator cards to cater to different throughput needs of a variety of storage-related applications and appliance vendors. All StorCompress products implement the "deflate" compression algorithm in hardware and include decompression hardware to retrieve the original data from the compressed data.

The "deflate" algorithm is the most commonly used lossless compression algorithm in the industry. Well known open source software such as gzip and zlib use this algorithm. StorCompress is compatible with both of these and produces output in either gzip or zlib format. This means that the compressed data produced by StorCompress can readily be decompressed by gzip or zlib.

The StorCompress 300 is a PCI-X card, which makes it easy for OEMs to integrate them into appliance platforms. It contains two compression engines which work in tandem to deliver high throughput. Drivers for various flavors of Linux are available. Indra Networks provides driver sources to OEMs and will work with OEMs to port the driver to other Operating Systems, if desired. A driver for various flavors of Windows is also available and is normally supplied in binary form.

## Technical Specifications

<b>Specifications</b>		
<b>Compression Compatibility</b>		GZIP/ZLIB format
<b>Compression Ratio</b>	Calgary corpus Canterbury corpus	2.464:1 2.875:1
<b>Performance</b>		
<b>Compression</b>	Calgary corpus Canterbury corpus	107.05 Mbyte/s 112.21 Mbyte/s
<b>Decompression</b>	Calgary corpus Canterbury corpus	155.2 Mbyte/s 162.44 Mbyte/s
<b>Operating System Support</b>		Linux Redhat 7.2, 8.0, 9.0 Fedora Core 2,3,4 Windows 2000, Windows XP, Windows Server 2003
<b>Power Consumption</b>	+3.3V +5V	750 mA (Typ)/1.01 Amp (Max) 190 mA (Typ)/230 mA (Max)
<b>Bus Type</b>		PCI X 2.0 64 bits, 66MHz PCI 2.3 64 bits, 33MHz
<b>Humidity Range</b>		5% - 85% (non-condensing)
<b>Operating Temperature</b>		Ambient Temperature: 5-45 deg. C
<b>Dimensions</b>	Form Factor: Length: Height:	Low Profile, MD2 6.42" (163.09 mm) 1.77" (45.00mm)
	Note: Above dimensions are for the PCB only and do not include the mounting bracket	
<b>Warranty</b>	180 days return to factory for hardware	

*"Windows is a registered trademark of Microsoft Corporation in the United States and other countries."*