Cornerstone Systems, Inc.

zFrame® model *z90* Server

*When speed is critical
Where do you find it?*

*Cornerstone's zFrame
model z90
will get you there fast!*

**Cornerstone Systems
zFrame Division**
420 Exchange
Suite 150
Irvine, CA 92602
1.800.510.3004
zFrame's Direct Hotline
866.66zebra (866.669.3272)
www.csihome.com

CORNERSTONE SYSTEMS, INC.

The zFrame® model z90 is the fastest and most capable model in the zFrame line-up. It provides approximately 110 MIPS[1] of processing capacity in a 3-way processor configuration.

Highlights

- Full S/390 capability, including ESA/390 features, supporting VSE/ESA, z/VSE, VM/ESA, z/VM, OS/390, and z/OS
- Eligible for GOLC (H50) based licensing of IBM® S/390 software
- Multiple-redundant hot pluggable power supplies and cooling fans ensure reliability and high availability
- Standard 330 GB of disk space for S/390, up to 2.8 TB internally and virtually unlimited capacity in external enclosures
- RAID-5 protection of all disk storage, using IBM high performance, hot pluggable disks and RAID controllers with non volatile cache
- Very high performance 10,000 RPM, 320 MB/Sec. disk drives standard, for your response time critical applications (15,000 RPM drives available)
- IBM System x 3800 model specifically designed for high availability applications, featuring 667 MHz Front Side Bus, six PCI slots, Error Correcting (ChipKill™) memory, and multiple redundant components
- Standard 5 GB of S/390 memory, expandable to 11 GB
- Ability to define and run multiple S/390 "images", providing a function similar to S/390 Logical Partitions
- Parallel ("Bus and Tag") and ESCON® channels available for connecting to traditional S/390 I/O devices
- Dual integrated Ethernet 10/100/1000 controller and software for easy integration into your LAN environment. Additional Ethernet or Token Ring adapters can be added for increased flexibility
- Standard SDLT (160/320) or LTO (200/400) tape and available SCSI adapters for connection to 3480/90 compatible tape drives
- Uses FLEX-*ES* ® from Fundamental Software Inc. (FSI), premier provider of S/390 emulation software, with 3 years of FSI FLEX-*ES* support included
- Complete configuration, staging, and testing of every system by Cornerstone prior to delivery, and on-site installation and customization

zFrame Delivers

Cornerstone Systems is committed to supporting their S/390 customers with outstanding technical support and services. Cornerstone provides on-site support for installation, migration, and training of every zFrame model z90.

IBM Premier Business Partner

As an IBM Premier Business Partner, we are recognized for the finest customer service and level of performance in the industry. Count on us to deliver your zFrame model z90 like no one else can! Call us at **1-800-510-3004** or visit our web site at **www.csihome.com** today.

zFrame model z90 Specifications

z90 Features	Standard	Optional
Processors	Four Pentium® IV Xeon™ MP processors provide equivalent of 110 S/390 MIPS	The standard single core processors can be upgraded to dual-core for even higher performance
S/390 Storage	5 GB Central and Expanded Storage and disk caching for S/390 systems	Up to 11.0 GB Central and Expanded Storage and disk caching, with some use restrictions
I/O Channels	SCSI-320 adapter and Serial Attached SCSI RAID adapter with 256 MB NV cache	S/390 Parallel Channels (one or three channels per adapter) and ESCON® channels
Disk Storage	330 GB usable for S/390 environment Emulating 3380, 3390 or FBA disks	Up to 2.8 TB internally, external expansion to more than 6 TB
Communications	Dual Ethernet 10/100/1000 integrated controller	Additional Ethernet or Token Ring adapters, 6 port ICA emulator for BSC or SDLC
Tapes	SDLT (160/320) or LTO (200/400) standard	SCSI attached 3480/90 or S/390 channel attached 3480/90
Power/Cooling	Dual redundant hot plug power supplies (110v-240v) and dual redundant hot plug fans	UPS (2200 VA or larger recommended)
Software	SCO UnixWare® 7.1.4 or SuSE® Linux® Pro 9.3 and FSI FLEX-*ES*®	S/390 Operating Systems (VSE/ESA, VM/ESA, z/VM, and OS/390) and compatible products
Cornerstone Services	Hardware and software configuration, initial on-site setup and loading of S/390 environment	Additional customization, full system migration and installation of additional S/390 software

Environmentals and Physical Facilities

Power
Standard 110-240V (Auto switching)

Temperature/Cooling
Normal Office Environment

Size
17.6″ width, 15.5″ height, 29.8″ d. + space for Display and Keyboard/Mouse
Rack mountable (5U) or Tower configurations available

[1] **MIPS**

Frequently used term meaning "Millions of Instructions Per Second". Commonly used to measure the processing capacity of S/390 type computer systems. MIPS is a very simplistic measurement however, and may not be a good indicator of overall performance. Customers should consider all aspects of system performance, including memory size and I/O capabilities, when evaluating a computer system.