

SRC-7 Scalable Systems and Servers



The SRC-7 succeeds the SRC-6 and provides the most powerful and programmer-friendly, general purpose, reconfigurable computing system on the market.

SRC-7 scalable systems and servers feature Series H MAP® processors, microprocessors with the SRC® SNAP interconnect as well as Common Memory nodes. Systems are housed in the SRC standard 19-inch 35U rack and are offered in a variety of configurations which include:

- *Clusters* - offering scalability and flexibility; system size is limited only by clustering technology.
- *Hi-Bar® Switch Network* - providing low latency and high bandwidth supporting thousands of nodes.
- *Hi-Bar Switch Network with Common Memory* - allowing for additional capability of managed data movement.
- *Hi-Bar Disk Storage* - provides terabytes of storage with multi-gigabytes/s of bandwidth with the ease of use of Common Memory.

35U systems include system console, tower management system and gigabit ethernet switch, leaving 28U available for customer-selected nodes.

Scalable systems users now have a choice of which microprocessor best suits their needs: Intel EM64T microprocessors or AMD's Opteron processors. Opteron processors are being offered under AMD's Torrenza Initiative. All AMD-based systems will still use the SRC SNAP high performance commodity processor interface and will be software compatible with all other SRC systems.

SRC-7 Scalable Systems / Servers Specifications

CPU	Same as SRC-7 2U or tower MAPstation™	
CPU Interconnect	Series D SNAP™ interface, 3.6 Gbytes/s sustained data payload	
MAP® Processor	Series H MAP Processor	
Hi-Bar® Switch	Series C 16-port crossbar	
Common Memory	Series C Common Memory Up to 8 GB/s per bank	
Console	LZS Global Services RKP115-1601E	
Power Management	Server Technology Sentry Power Tower	
Network Interconnect	Netgear 16-port gigabit switch	
Operating System	Fedora Linux	
File Systems	EXT3	
Compilers	Intel C++, Intel Fortran, SRC Carte™ Programming Environment	
Power	1200 W typical	
Physical Specifications – 35U	Dimensions	Height: 69.7 in. (177.04 cm) Width: 24.00 in. (60.96 cm) Depth: 37.20 in. (94.49 cm)
	Weight	700 lbs max (317 kg)
	Cooling	Air cooled
	Operating Ambient Temperature	50° to 95° F (10° to 35° C)
	Non-Operating Temperature	-4° to 140° F (-20° to 60° C)
	Operating Relative Humidity	15 to 80%

SRC Computers reserves the right to change these specifications at any time