Overdrive 3000

SoftIron Overdrive 3000 is an exciting new development platform for 64-bit ARM computing in the Enterprise. Powered by the AMD Opteron™ A1100 Series processor and featuring ARMv8 Cortex A57 cores, the 1U rack server is an ideal platform for developers looking to build the next generation of ARM based devices and software.

SoftIron® Overdrive 3000 is an enterprise class 64-bit ARM® developer platform powered by an eight core AMD Opteron™ A1100 series processor. The Overdrive 3000 system combines the hardware and software needed to generate portable code and test it in a production environment.

Building The Enterprise Eco-System

The SoftIron Overdrive 3000 is ideal for data centers looking to move beyond general purpose computing and build proof of concept trials around a more diverse CPU estate utilizing specialized workloads. Building and porting applications for ARM 64-bit architecture is vital to establishing a strong eco-system. The SoftIron Overdrive 3000 platform gives developers the opportunity to expand the architecture's potential in a production environment. The system comes pre-installed with industry leading software.

Delivering Choice In The Data Center

The 64-bit ARMv8 architecture provides enterprise class performance, delivering increased choice to the data center. The opportunity to complement existing x86 CPU estates, or create highly efficient next-generation facilities, all running industry standard firmware, OS and applications, introduces a huge range of new possibilities.

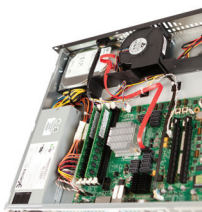## Improving Energy Saving Efficiency

ARMv8-based platforms are designed to run both intensive and scale-out applications with lower energy consumption than standard x86 servers. Even under full load, the Overdrive 3000 consumes less than 35W of power making around 2 ½ times more efficient than systems powered by mainstream alternative CPU's.

Lowering Operational Costs

Today's data centers are facing increased demands to scale. Big data, cold storage, private clouds, machine learning and a rapidly expanding eco-system of software and applications means pressure on space, power and compute capacity. The SoftIron Overdrive 3000 is based around the AMD Opteron™ A1100 SoC which is optimized for these and next-generation operating environments.

Product specifications overleaf

Overdrive 3000

Product Specifications

Architecture	64-bit ARM® v8
Processor	AMD Opteron™ A1100 Series Processor
Processor cores	8 x 64-bit ARM Cortex A57 Cores
Memory	2 x RDIMM with 16GB DDR3 DRAM (4 x DDR3 slots total; expandable to 128GB)
Interfaces	2 x 10GBase-T Ethernet PCI Express® connectors configurable as: Single x8 or Dual x4 ports 14 x SATA 3.0 ports Standard UEFI Boot Environment
Storage	1 x 1TB HDD
Power supply	ATX power supply
Voltage range	100V - 240V
Frequency range	50-60 Hz
Software	openSUSE Linux Standard Linux GNU tool chain Platform device drivers Apache web server MySQL database engine PHP scripting language Xen KVM Hypervisor Docker OpenJDK 64-bit ARM
Form factor	1U Rack Mount
Dimensions	H 43mm / 1.7 inches W 426mm / 16.8 inches L 356mm / 14 inches
Weight	5.2kg / 11.3 pounds

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SOFTIRON

Operating Environments

Xen Project, KVM, ceph, CentOS, openstack, suse

Developer Tools

perl, python, php, RAILS, GCC, Java POWERED

Applications

POWERED BY APACHE, mongoDB, WORDPRESS, hadoop, MySQL

Buy online

http://overdrive.softiron.com

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