

### **PRODUCT DATA SHEET:**

eSATA SheevaPlug Development Kit

## Always-on Computing for the Digital Home

The eSATA SheevaPlug development kit is a plug computing device that runs network-based software services that normally require a dedicated personal computer.

Featuring a 1.2GHz Marvell Sheeva CPU with 512 MB of flash memory and 512 MB of DDR2, the SheevaPlug development kit provides ample performance and resources to develop or port almost any application. Multiple Linux distributions are available for the platform, and software is supported in an open source model. Network connectivity is via Gigabit Ethernet; peripheral devices can be connected using the eSATA type II or USB2.0 interfaces.



#### **Applications:**

In the plug computing model, network-based software services from a desktop or laptop computer are simply moved to a more efficient device that can be left on all of the time, at ten percent of the cost.

Basic examples of such services include web, email, and virtual private network servers hosted in homes and small offices. Moreover, the rapid increase in the amount and variety of digital content and network-connected devices in the home are creating even more opportunities. Software services are needed to locate, manage, secure, and share this data.

Unlike Web 2.0 hosted services that use central servers on the Internet to store copies of data, the plug computing approach distributes computing power to every home. A plug computing device can take advantage of peer-to-peer connectivity over the Internet, as well as the latest network protocols-such as Universal Plug and Play (UPnP)-that only work between devices in the home. In some scenarios, a hybrid approach that combines hosted services with an in-home computing resource can reduce deployment costs and make services easier to use.

### Package Contents:

- eSATA SheevaPlug DevKit
- Power slider
- Power Cable
- USB Cable
- Ethernet (cat 5) Cable
- CD Containing Software and Documentations

#### **Physical Dimensions**

• 110mm (L) x 69.5mm (W) x 48.5 mm (H)

Note: Our unit will accept 100-240 Volts AC input 50Hz/60Hz. We have plugs for, U.K., and European wall sockets; power adaptor may be required to take the plug to fit for other countries.









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Features	Benefits
• Compact End-Product Form Factor	<ul> <li>Professional demonstration of new applications</li> <li>Suitable for initial trials</li> <li>Shorter time to production</li> </ul>
Open Source Platform	<ul> <li>Available at low cost to any interested developer</li> <li>Readily available Linux distribution</li> <li>Community support</li> </ul>
• High performance with low power	<ul> <li>Ideal for always-on computing tasks</li> <li>Easier to port existing software without modification</li> <li>Run multiple application concurrently</li> </ul>
GHz Class Processor	<ul> <li>Wirespeed packet processing</li> <li>Fast response to interactive applications</li> <li>High speed access to USB 2.0 connected storage</li> </ul>

System Components	
<ul> <li>Sheeva CPU Core</li> <li>1.2 GHz operation</li> <li>L1 Cache: 16K Instruction + 16K Data</li> <li>L2 Cache: 256KB</li> </ul>	Memory • DDR2 400MHz, 16-bit bus • 512MB DDR2: 1Gb x8, 4 devices • Power efficient Samsung devices • NAND FLASH Controller, 8-bit bus • 512MB NAND FLASH: 4Gb x8, direct boot • 128-bit eFuse Memory
<ul> <li>Power</li> <li>Power input: 100-240VAC/50-60Hz 19W DC Consumption: 5V/3.0A</li> <li>High efficiency POL DC-DC converters</li> </ul>	Development Interface • System Development Board • JTAG and Console Interface via USB • SDIO expansion • JTAG OpenOCD support via USB
High speed I/O & Peripherals • GE • eSATA type II • USB 2.0 Host • RTC w/ Battery	



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