



# EBS SYSTART

ENTWICKLUNG UND PRODUKTION

Near ubiquitous broadband Internet connecting a multitude of distributed embedded systems in the IoT world, introduces new challenges in data transfer performance and communication security.

The Oxalis meets these challenges head on and provides a high performance IoT gateway solution with low power consumption in a modular architecture.

SOM - SYSTART LS1012A	Motherboard - Oxalis
<p>NXP LS1012A CPU @ 800MHz                      2GB DDR3 RAM                      64MB QSPI flash memory                      2x GBit Ethernet (hardware accelerated)</p> <ul style="list-style-type: none"> <li>○ PFE: Packet forwarding without CPU/Kernel interaction</li> <li>○ Accelerated crypto algorithms</li> </ul> <p><b>Comes ready-to-run preloaded with:</b></p> <ul style="list-style-type: none"> <li>○ Bootloader U-Boot</li> <li>○ Linux Kernel 4.1</li> <li>○ Busybox</li> </ul> <p><b>Debugger and Flash programmer On-Board:</b></p> <ul style="list-style-type: none"> <li>○ Kinetis MCU running MBED                      Firmware providing:                          System console TTY                          CMSIS-DAP for easy JTAG Access</li> </ul>	<p>2x Gigabit Ethernet PHY (EEE Green Ethernet compatible) &amp; RJ45 Connectors                      mSATA 3.0                      miniPCIe (fits most laptop WiFi adapters)                      Micro SD Card slot                      2x USB 3.0                      96 Boards Expansion Connector</p> <ul style="list-style-type: none"> <li>○ 2x I2C</li> <li>○ UART</li> <li>○ SPI</li> <li>○ GPIO</li> <li>○ 12V DC</li> <li>○ 5V DC</li> </ul> <p>5 User LEDs via GPIO Extender                      12V Power plug                      Cortex-M JTAG headers for direct access to all components                      96Boards Enterprise Edition Specification compliant</p>

## Cut Time-to-Market

Hit the road running with a tried and tested system and innovate from there. Want to do continuous integration testing with your Oxalis based product? Send us your Yocto layer and we run it against our complete test suite! We can help you set up a testbed for On-Site automated testing.

## Oxalis BSP

Yocto based BSP, Customizable Linux distribution, Drivers preloaded, WiFi Enabled, VPN Enabled

## Contact us to create your own IoT solution

EBS-SYSTART GmbH  
 Industriestraße 33a  
 82194 Gröbenzell

E-Mail: [M.Bittner@ebs-systart.com](mailto:M.Bittner@ebs-systart.com)  
 Homepage: [www.ebs-systart.com](http://www.ebs-systart.com)

