

LINUX BSP D0401 FOR AM4120



- ▶ license-free off-the-shelf BSP
- ▶ based on Freescale LTIB
- ▶ embedded root file system
- ▶ drivers, libraries, example applications for board specific devices
- ▶ all sources included



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PRODUCT OVERVIEW

This Kontron BSP is designed to get customers started immediately with application development instead of first getting involved with BSP integration or hardware bring-up issues. Support of board specific devices and interfaces has been added to the BSP to achieve the full benefit of the functions provided by the hardware.

Monitoring of assorted onboard temperature conditions, board voltages and the power supply status is provided via IPMI.

A rich set of Linux applications is provided. A convenient menu interface is provided to configure the root file system features as well as boot strategies and other parameters of the target system. The package contains a guideline, describing Kontron specific additions to the LTIB Linux, and a complete API description for those, who want to use Kontron specific HW features within their applications.

This BSP is verified against the LTIB version for P2020 processors, which can be downloaded at the Freescale website.

▶ TECHNICAL INFORMATION

LINUX KERNEL	Kernel version 3.0
CROSS COMPILER TOOL CHAIN	gcc-4.3.74-eglibc-2.8.74-dp-2
LTIB VERSION	ltib-p1020rdb_p2020rdb-20101029 (available at Freescale Homepage)
EMBEDDED LINUX ROOT FILE SYSTEM	Built with LTIB, package selection possible
MULTI PROCESSING	Symmetric Multi Processing (SMP)
ETHERNET	3x 10/100/1000 eTSECs (1 x configurable to front or rear panel)
PCI EXPRESS®	Root Complex
IPMI	Sensor Reading System Monitoring Graceful Shutdown
BOOT DEVICES	Network NAND flash SDHC flash card
MISCELLANEOUS DEVICES	Real Time Clock Hardware Watchdog (RESET, IRQ, Dual-Stage) EEPROM for user data storage
STATUS INDICATION	General Purpose LED block

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