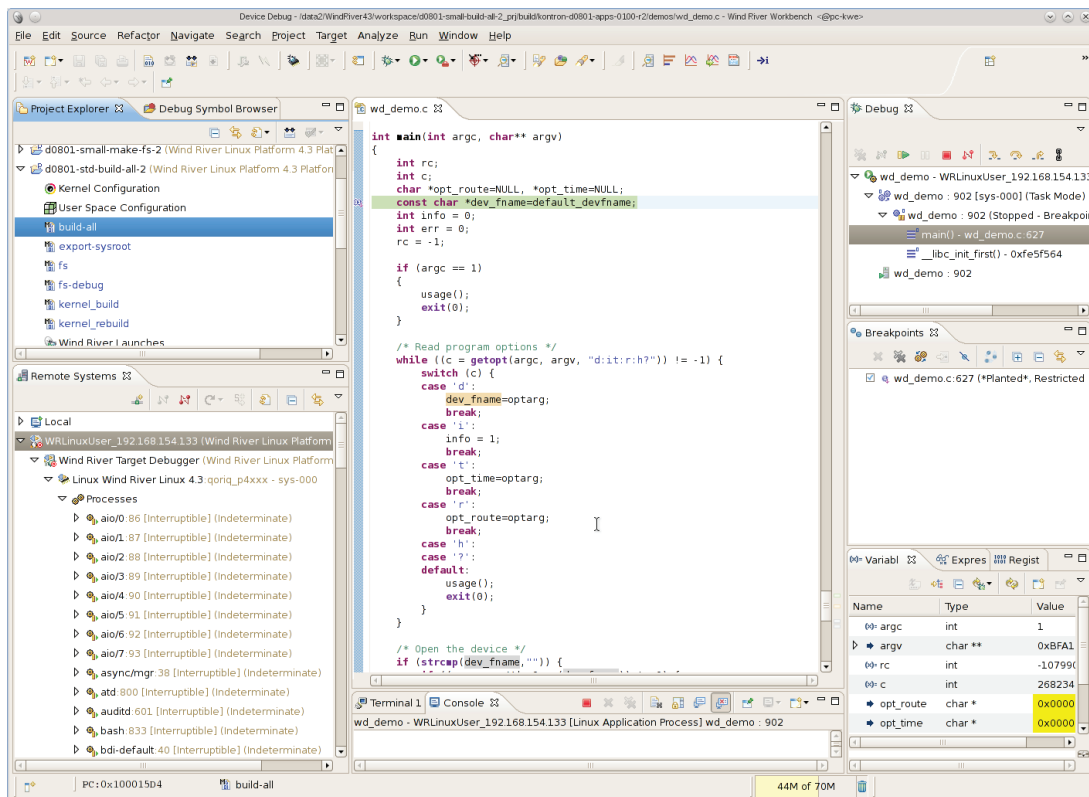


» Kontron D0801 Platform BSP for Wind River Linux «



**WIND RIVER
PARTNER**

Kontron D0801 Platform BSP for Wind River Linux

- » Off-the-shelf BSP for Wind River Linux
- » Supports Linux SMP
- » Fully integrated into the Wind River Workbench
- » Supports platform board specific devices
- » Supports Kontron Soft-Config base configuration (SCONF_BASE_X)
- » Supports Kontron AM4140

Kontron D0801 Platform BSP for Wind River Linux

The Kontron BSPs for Wind River platforms are 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.

Board hardware configuration is typically carried out by setting jumpers or DIP switches on the board. Due to the high flexibility in the offered fabric configuration of the FreeScale QorIQ processors and the routing possibilities of the board(s) the Kontron Soft-Config has been introduced. The Kontron Soft-Config carries out board configuration

using software provided settings that can be selected in U-Boot in the form of SCONF_BASE settings. These settings are applied by the hardware logic to the reset configuration word (RCW) to define the SerDes lane assignments and multiplexing (SRDS_PRTCL) during early board startup.

The BSP is prepared to use the Wind River system diagnostic and debugging tools which are integral elements of the Wind River Workbench. Various methods for application deployment of the final system are supported. All boot devices can be used to load the kernel and a root file system. Instructions to install a system for stand-alone deployment are bundled with the BSP.

Technical Information

Wind River Linux Platform	Platform for Network Equipment (Wind River Linux 4.3) (Other platforms can be supported, please contact Kontron)
Root File Systems	glibc_cgl, glibc_std, glibc_small
Kernel Profiles	cgl, standard
Multi Processing	Symmetric (SMP)
Boot Devices	Network NAND Flash SD Card
PCI Express	Root Complex
Ethernet	10/100/1000 BASE-T DPAA TSECS 10 Gigabit Ethernet / XAUI
Serial RapidIO	Host/Agent (Linux RapidIO Subsystem)
Ethernet	10/100/1000 BASE-T DPAA TSECS 10 Gigabit Ethernet / XAUI
Serial	RS232 without hardware handshake
IPMI	Sensor Reading System Monitoring Graceful Shutdown
Miscellaneous Devices	Real Time Clock Hardware Watchdog (RESET, IRQ, TIMER, Dual-Stage) EEPROM for user data storage
Mass Storage	NAND Flash, Micro SD card
Board Status Indication	General purpose LED block

NOTE: The feature list above represents a summary of functionalities supported by the platform BSP. Depending on the used Platform Board a subset of those features is available. For more information about implemented hardware features refer to the Platform Board Hardware Manual.

Ordering Information

Please contact your local sales office for ordering information.

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