



RidgeRun Network Digital Photoframe Reference Application for DM3XX and DaVinci ARM Processors **

The RidgeRun Network Digital Photoframe Reference Application is designed for ODM's and OEM's to get to market fast. Built on RidgeRun's advanced Linux BSP platform, this product can be quickly configured to TI based hardware platforms and quickly extended to support custom features and functions.

RidgeRun's Network Digital Photoframe has all of the features and functions of today's most advanced stand-alone digital photo frame applications. In addition, RidgeRun has added networking features so that content can be sourced remotely either from a home network or through the Internet. We have added support for Ethernet, Wi-Fi, and networking over USB in addition to local media options for card readers.

RidgeRun has made software configuration a breeze. Built on RidgeRun's configuration framework technology, the underlying BSP with its drivers and LCD setting as well as the photoframe application can be quickly configured to your requirements.

Media Support

All popular image formats are supported. RidgeRun's Network Digital Photoframe reference application really enables wired or wireless remote portable photo player capability in a digital photoframe hardware form factor. Imagine a Digital Photoframe that plays photos from your web sharing site. Nearly any back-end source for content can be configured and supported through file systems or XML interfaces.

Branding and Language Support.

RidgeRun has made it extremely easy to customize to your branding and language needs. Graphics can be easily changed out to support the themes and look and feel requirements for almost any situation. Multi-lingual is supported throughout the SDK framework. English is the default language.

Extensible component framework.

RidgeRun's architecture is based on reusable component framework that can be easily modified or extended. Our architecture also makes it easy to integrate open source solutions to this platform for rapid customization.

Hardware Features Supported.

The RidgeRun Network Digital Photoframe reference application comes ready to enable for boot from NAND

requirements. NAND chips differ, but our solution can be quickly configured to support boot from NAND in a number of file system implementations. We also support local hard drives, power management, remote control devices, LCD's, USB card readers and other mass storage options, networking and audio devices.

Services and Support from Expert Engineers: Not Call Center Trained Rookies.

RidgeRun prides itself on having direct engineering relationships with our customers. The quickest way to get to the root of a problem is to talk to the person who wrote the code or designed the solution. RidgeRun will never give you the run-around on getting to the people in-the-know.

Our Network Digital Photoframe Reference Application can be complemented by a service contract which would further enable speed-to-market for your solution. RidgeRun engineering can work with you on your hardware platform to get your solution up and running fast. We can also assist you in extending the system to meet your specific application needs and feature requirements.

RidgeRun Network Digital Photoframe specifications are on the next page....

***** Call for availability and pricing**

Why RidgeRun's Network Digital Photoframe?

- Configuration control puts you in control. Select just the components that match your requirements
- Customized, branded look and feel requirements are easily met.
- Multi-lingual support
- Network features that surpass what is currently available on the market
- Pre-built, pre-packaged high performance Linux OS, drivers and application framework
- Extensible RidgeRun architecture supported

RidgeRun Architecture

Media Player PMP, WebCam, Photo Frame		Wi-Fi Router, IP Phone		Universal Remote Control			
Media Framework	Networking Framework	Portable Framework		User Interface			
uClibc / glibc Library + C++			Power Management				
Linux 2.6 Preemptible Kernel Real-time scheduler, Real-time patches							
JFFS VFAT	Hi-Res Timer	IDE Driver	Compa ct Flash	USB Driver	CCD/PE Driver	SD/MMC Driver	
Boot Loader	UART Driver	Ethernet Driver	WiFi Driver	Frame Buffer	I2C SPI	Bridge Driver	

*example Drivers

BSP Features:

- Simple configuration panel driven BSP build tool
- Linux 2.6.16 kernel
- GCC 4.1 with soft-float ARM processor support
- uClibc libraries
- Many open-source applications
- Integrated micro-IP stack with ARP and ICMP support
- Tiny footprint: Less than 2 meg!
- Short boot time
- Real-time patches and preemptive kernel and drivers
- DMA driver support
- NPTL thread library for better thread performance

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- EABI support featuring the ARM Application Binary Interface
- File systems (Yaffs2, JFFS2, NFS)
- Support for dynamic logical partitioning of storage devices (flash, NAND and CF) minimizing required recompilations

Network Digital Photoframe Features:

Image Formats:

- JPEG
- GIF
- BMP
- PNG

Application Features:

- Image zoom in/out
- Scale
- Rotate
- Fade in/out
- Configurable network media sources
- Slideshow manager
 - Photo playlists
 - Photo playlist features

Hardware Support:

- Boot from NAND
- USB mass storage
- Ethernet and Wi-Fi
- LCD configuration
- Remote control
- Button navigation
- Audio support

Target Architectures:

- TI – DM320
- TI – DM350
- OMAP – 5910
- DaVinci – DM6446
- DaVinci – 6443
- Others available upon request

Development Support

- Eclipse Integration
- GCC 4.1 support
- GDB Support



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