

Overview

Consumers are increasingly interested in using state-of-the-art products that simplify communications and provide a unique multimedia experience. Much more than a stand-alone cordless phone base station or audio player, infotainment center/media phones are answering these demands, and inspiring new forms of residential multimedia communications. Comprised of a wireless digital picture frame (DPF), Internet radio, digital living network alliance (DLNA) client, MP3 player, and web browser, while offering DECT features and VoIP capabilities, infotainment center/media phones are poised to revolutionize the way people interact at home.

DSP Group™'s comprehensive infotainment center/media phone reference design enables consumer electronics (CE) manufacturers to easily and rapidly develop an innovative communications platform for the device. As part of the Company's connected multimedia screen family, the reference design enables cost-effective development of always-on infotainment center/media phones featuring a touch screen and intuitive interface, as well as immediate access-to-information capabilities. The DSP Group-designed infotainment center/media phone is also highly portable, built on an open platform, and can be easily personalized.

The infotainment center/media phone reference design is built around the Qtopia software development framework. A customizable application platform and user interface for Linux-based consumer devices, the framework enables manufacturers and service providers to cost-effectively develop such devices while maintaining complete control of branding and user interface design.

The infotainment center/media phone reference design is based on DSP Group's advanced XpandR™ II, a comprehensive chipset that integrates Wi-Fi and DECT. With an integrated ARM™ processor, DSP, Wi-Fi and DECT baseband processor, analog front end, and software packages, XpandR II includes all of the components needed to develop a range of new and sophisticated portable and location-free multimedia products.

XpandR II is part of DSP Group's new-generation XpandR family of multimedia chipset solutions. Comprised of hardware and software development kits, the XpandR family integrates voice, data and video, reduces system bill of materials (BOM), and is suitable for mass-market adoption, while ensuring fast time to market.

Features

Processor

- ARM926EJ-S™ @ 240MHz processor
- 16-bit TeakLite™ DSP core for voice/audio processing functions at up to 160 MHz

Interfaces

- USB2.0 OTG
- SD/MMC/MS
- Keypad, LCD
- Navigation pad, volume control, home/back buttons
- Embedded 3W stereo speakers
- Audio jack for headset or speakers

Display

- High-resolution 7" LCD (800 x 480) with touch-screen capabilities
- Multiple screen size support up to WVGA

WLAN Connectivity

- Wi-Fi connectivity (802.11b/g) with maximal-ratio combining (MRC) operation for increased range and sensitivity
- Security: WEP, WPA, WPA2, TKIP and AES hardware acceleration
- QoS and low power: WMM and WMM-PS for improved battery life of Wi-Fi devices
- WPS for easy set-up and configuration
- Wi-Fi auto find (for easy Wi-Fi network setup)
- LAN Connectivity
- RJ 45 Ethernet port

VoIP Software Suite

- Narrowband vocoders: G.711, G.723.1, G.726 G.729, G.729a
- Wideband vocoders: G.722
- SIP call signaling

Telephony System

- Complete DECT base station
 - 1.7GHz, 1.8GHz, 1.9GHz band, and TDMA operation
 - GAP, full CAT-iq support 1.0/2.0 support
 - Multi-handset (up to 6)
 - VoIP or PSTN network operation
 - Caller ID, call waiting CID
- VoIP system: multi-line, high quality WBA, TR-69 support
- Embedded hands-free phone via touch screen
- Synchronized contacts via network
- Cordless handset cradle (optional)
- Full telephony application suite

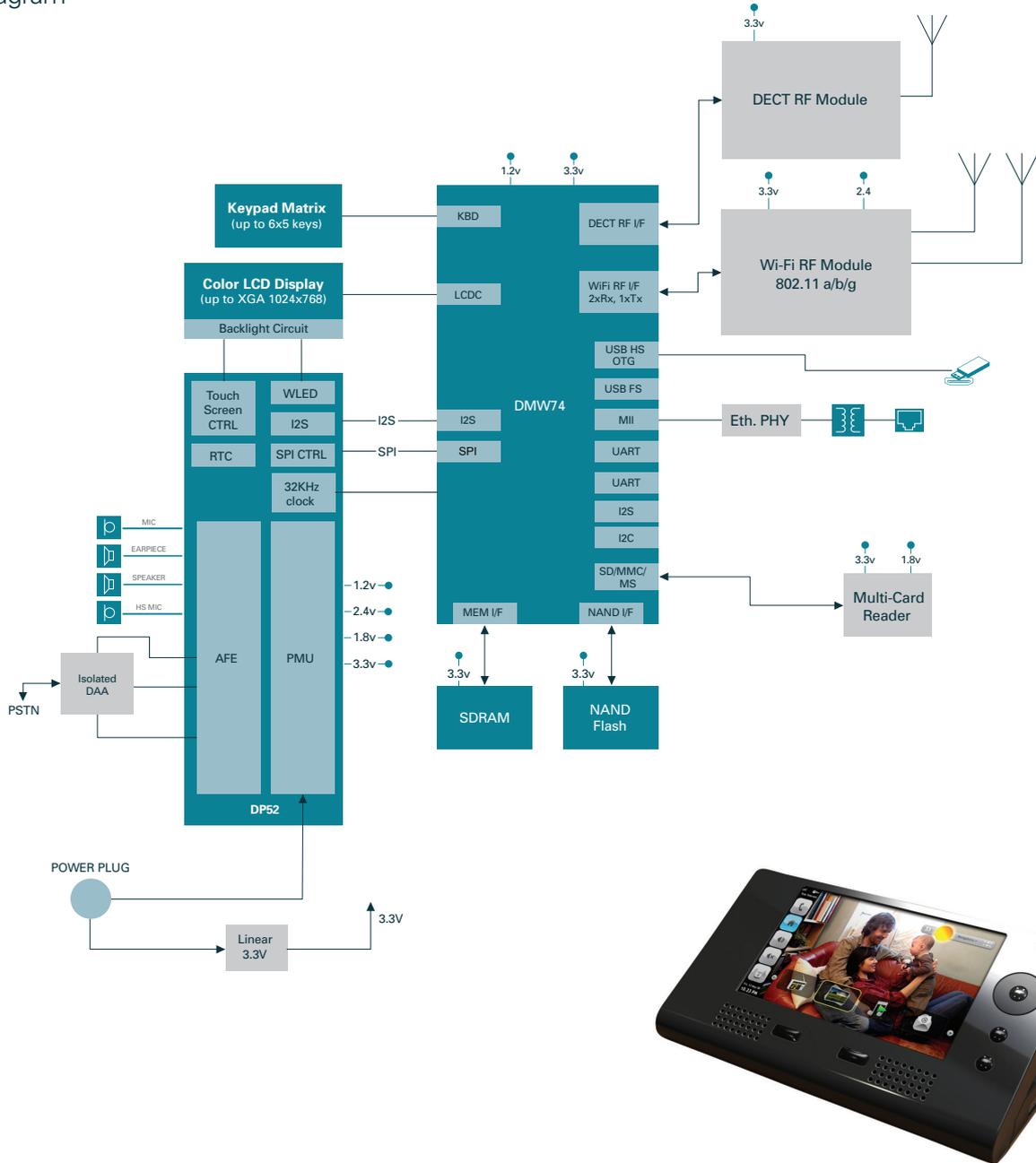
Applications

- Internet radio streaming with personalized services
- Local and remote audio player (MP3, WMA)
- Digital photo viewer, local and remote streaming (Picassa, Flickr)
- Hardware JPEG codec with picture scaling and OSD mixer
- DLNA client
- Web browser, RSS and widgets

Benefits

- Fast TTM
- Rapid new application integration
- Diverse, flexible offering
- Easy customization
- Enhanced user experience
- Low development costs

Block Diagram



DSP Group, Inc. (NASDAQ: DSPG) is a leading global provider of wireless chipset solutions for converged communications at home. Delivering system solutions that combine semiconductors and software with reference designs, DSP Group enables consumer electronics (CE) manufacturers to cost-effectively develop new revenue-generating applications with fast time to market. At the forefront of semiconductor innovation and operational excellence for over two decades, and with a growing share of the wireless home telephony market, DSP Group provides a broad portfolio of wireless chipsets integrating DECT, Wi-Fi, PSTN and VoIP technologies with state-of-the-art application processors. Enabling converged voice, audio, video and data connectivity across diverse consumer products – from cordless and VoIP phones to home gateways and connected multimedia screens – DSP Group proactively partners with CE manufacturers to shape the future of converged communications at home.

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