



PortalPlayer, Inc.™ has taken its widely-adopted platform technology found in the majority of hard-drive based music jukeboxes to the next level. The new Personal Media Player: Photo Edition development platform includes a system-on-chip (SOC), Firmware Development Kit (FDK) and Software Development Kit (SDK) enabling consumer electronics and computer manufacturers to quickly bring to market a new category of products called “Personal Media Players.”

These battery-powered, hard-disk-drive-based Personal Media Players will allow consumers to capture, record, store, play and display their entire music, audio books, album art, photo collections and video (MJPEG) on a single device that fits in a pocket.

personalizing digital entertainment



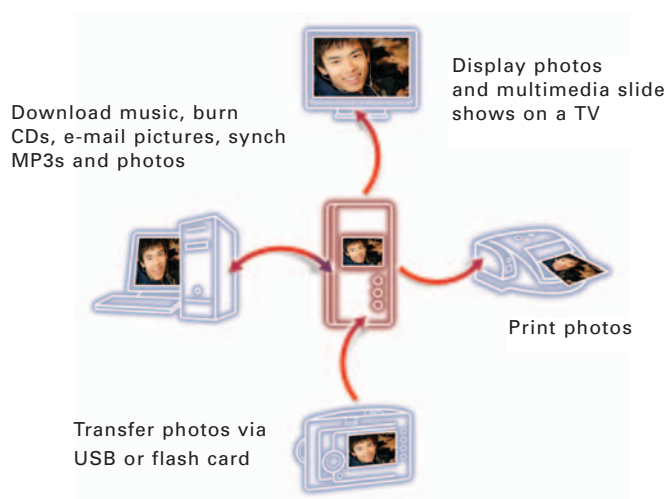
personal media player: photo edition

Why Choose PortalPlayer Platforms?

- Rapidly get innovative products to market using a complete end-to-end platform
- FDK enables significant opportunity for differentiation versus the competition
- Participate in high-growth online content market revenue opportunities
- Leverage the seamless, streamlined development process provided by PortalPlayer and an authorized developer
- Reduce overall bill of materials (BOM) for a hard-disk-based system

Enjoy Your Personal Content Everywhere

Touch up photos, record voice notes, add soundtrack audio, catalogue images and create slide shows.





personal media player: photo edition

Key Platform Elements

Photo & Video Format Support

JPEG
GIF
TIFF
Motion JPEG (MJPEG)
MPV standard for mixed media content
“packaging” with improved PC synchronization

Audio Format Support

MP3 (encode and decode)
WMA (WMA Pro Lossless 2nd Half 2004)
AAC
ACELP.NET

Download Service Compatibility

AMG
Audible.com™
Gracenote®
MusicMatch®
Napster®
Real Audio®
And more....

Display Support

Supports a broad range of color STN
and TFT LCD panels
YUV CCIR601/CCIR605 to
NTSC/PAL TV Encoder
Support for monochrome and
4-bit Gray scale panels
Bridge interface for smart displays

Connections

Full-Speed and Hi-Speed USB® 2.0 Device,
Host and On-The-Go for direct connections
between the device to a digital camera,
printer or PC FireWire® (IEEE 1394a™) for
PC connectivity
SDIO expansion slot for flash card support
PictBridge® support for direct device to
printer connection

What's Included:

System-On-Chip

The Personal Media Player: Photo Edition features the PP5020 SOC – a tightly integrated, high-performance SOC that ensures minimized system BOM costs and advanced, media-rich features.

- **High-Performance Processing Engine**
Dual ARM7TDMI® microprocessors use a unique crossbar architecture and employ zero wait state memory to deliver 160 MHz performance, with future roadmap support up to 200 MHz. Fast decoding/encoding of digital audio, and decoding of JPEG and MJPEG images.
- **Rich Interface Set**
USB® 2.0 Device, Host and On-The-Go (OTG), FireWire® (IEEE 1394a), SPDIF and Bluetooth connectivity; on-chip ATA/66 IDE controllers and dedicated DMA engines for up to four hard disk drives.
- **Expansive Display Support**
Display support included for YUV out to an external TV encoder, color TFT VGA graphics controller, 4-bit gray scale controller or bridge interface to smart panels.
- **Advanced Power Management**
Most functional modules can be shut down when not in use. Allows devices to operate more than 15 hours on a single AA alkaline battery.

Firmware Development Kit (FDK) Version 5

The Personal Media Player: Photo Edition FDK includes the firmware necessary to develop compelling personal media player products. Select capabilities of the PortalPlayer:

- **Immersive Media Experience**
Highest audio quality reproduction, PPI Optimized CODEC Suite, PPI CODEC Socket Architecture
- **Intelligent Library Indexing**
PPI File System, PPI Database Engine, PPI Metadata Engine
- **Digital Rights Management**
PPI Crypto Services, Media Service Framework
- **Adaptive Power Management**
PPI HDD Micro-Pulse Power Control™, PPI Buffer Play Caching

Software SDK

The Personal Media Player: Photo Edition SDK enables custom PC application development, including synchronization, firmware updating, and slide show creation. The Photo Edition SDK libraries for the Microsoft® Windows® 2000 and XP operating systems are provided in C++.

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PortalPlayer, Inc. is personalizing digital entertainment by providing complete platforms for computer and consumer electronics manufacturers to design innovative personal media players that integrate audio and photo capabilities. The company's award-winning, flexible silicon and software platform has been adopted by the majority of leading audio jukebox manufacturers worldwide by providing superior features and unmatched flexibility, and enabling rapid time to market. Founded in 1999, PortalPlayer is a privately-held company with offices in Santa Clara, California; Charlotte, North Carolina; Seattle, Washington; and Hyderabad, India. For more information, visit www.portalplayer.com.