

## Product Bulletin

# Professional Audio Development Kit

Developed in conjunction with Lyrtech Inc., the Professional Audio Development Kit (PADK) is a hardware/software solution based on the new TMS320C672x™ floating-point DSPs. The new C672x™ DSPs are optimized for professional audio, musical instruments, broadcast audio and commercial audio applications.

The PADK integrates the C6727 DSP with Burr-Brown ADCs and DACs. This board also features a host of different I/O options and connectors. In addition to the hardware, the PADK includes real-world audio software example code to demonstrate C672x DSP performance and provide a good reference for developers to create customized applications. Further enhancing the utility board is a convenient

expansion slot that can allow daughtercards to be used to evaluate other components not featured on the PADK.

The comprehensive PADK includes the hardware and software needed to quickly design differentiated pro-audio apps. Specifically, the solution includes:

### Hardware

- TMS320C6727 DSP
- High-quality Burr Brown ADCs and DACs
  - 24-bit resolution
  - 192-kHz sampling rate
  - 8 channel, for development for 7.1 surround audio applications
- Coaxial & optical digital connectivity
- Flexible expansion slot
- USB 2.0 port

### Software

- Fully compatible with Code Composer Studio™ IDE and eXpressDSP™ Development Tools
- DSP/BIOS™ Kernel, Reference Frameworks and Chip Support Library
- Multichannel reverb application

### Key Benefits

- Develop audio algorithms using the high-quality audio performance of the TMS320C672x-based PADK
- Reduce development time of prototype boards by leveraging the PADK's flexible I/O options
- Extend utility of PADK with the expansion slot
- Begin immediately developing customized audio applications with audio software examples

### TI's DSP Platform Software and Development Tools

TI's software and development tools include:

- **Code Composer Studio** – integrates familiar PC host tools needed to take a real-time, embedded application quickly through the design process.
- **DSP/BIOS Kernel** – scalable real-time kernel eliminates the need to develop and maintain custom operating systems or control loops.
- **C Compiler** – eliminates assembly in most cases saving time and effort by using the same development tools for both audio and video subsystems.
- **Reference Frameworks and Chip Support Library** – provide the base foundation code necessary to get real-time applications up and running quickly.
- **TI DSP Third Party Network** – an extensive array of companies provide off-the-shelf software

### Availability/Pricing

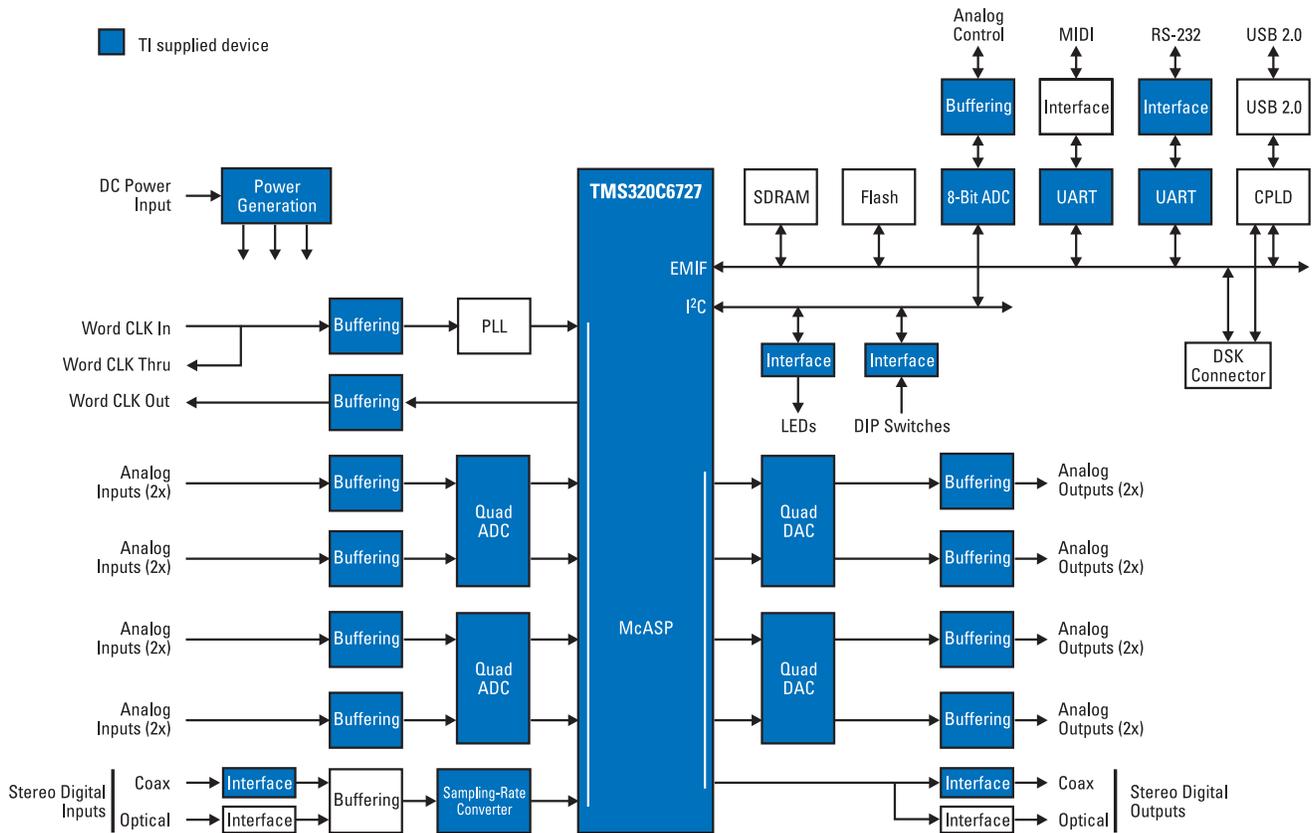
Available in 3Q05, the comprehensive PADK is priced at U.S. \$1,995. For purchase information, please contact Lyrtech at [info@lyrtech.com](mailto:info@lyrtech.com), your local TI sales representative or an authorized distributor.

For more information, go to [www.ti.com/padk](http://www.ti.com/padk)



**PADK includes hardware, software and documentation to get started immediately.**

# Pro-Audio Development Platform Block Diagram



## TI Worldwide Technical Support

### Internet

#### TI Semiconductor Product Information Center Home Page

support.ti.com

#### TI Semiconductor KnowledgeBase Home Page

support.ti.com/sc/knowledgebase

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