



24-bit Dual-Core Symphony® DSP

DSP56724

Not Recommended for New Designs

This page contains information on a product that is not recommended for new designs.

Last Updated: Apr 9, 2022

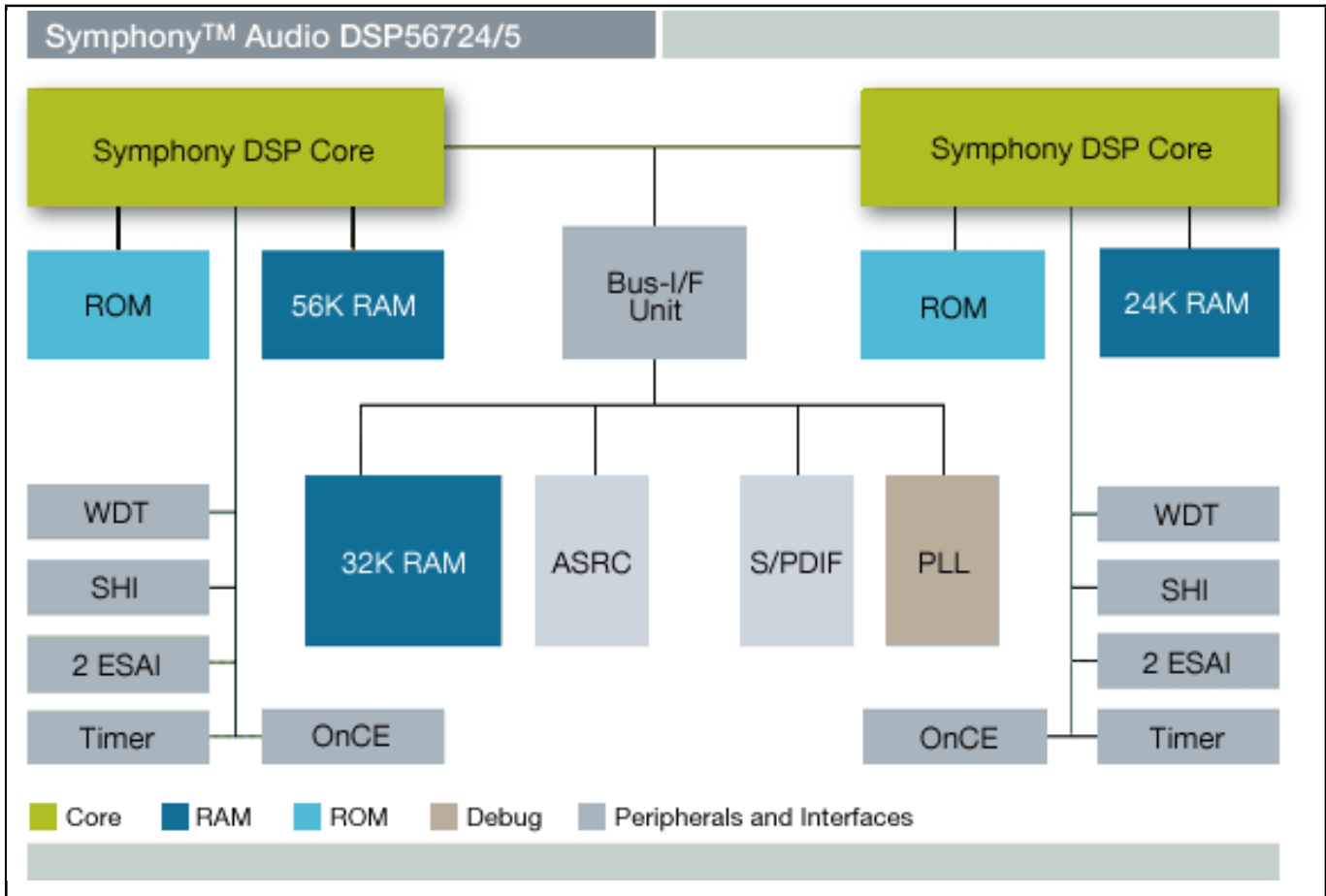
The Symphony® audio DSP56724 is part of the DSP5672x family of multi-core 24-bit processors, giving our customers flexibility and scalability in their product design. The DSP56724 retains code compatibility with our popular DSP56000 and DSP56300 core families of DSPs and provides pin and peripheral compatibility with the DSP56720.

The Symphony audio DSP56724 excels at audio processing for consumer and professional audio applications requiring high million instructions per second (MIPS). For consumer applications, higher MIPS and memory requirements are driven by a multitude of complex audio processing algorithms to provide a more comprehensive experience with home entertainment systems. In addition, the DSP56724 provides an external memory controller to expand memory off-chip to support lip sync delays required by some consumer applications.

For professional audio applications that require audio recording, signal processing and digital audio synthesis, the DSP56724 offers a high-performance solution without sacrificing cost savings or power consumption and can replace a multi-DSP design with a single-chip solution.

The DSP56724 provides a wealth of on-chip audio processing functions via a plug-and-play software architecture system that has the ability to support audio decoding algorithms as well as various post processing functions.

2243_DSP56724_5_BD Block Diagram



View additional information for [24-bit Dual-Core Symphony® DSP](#).

Note: The information on this document is subject to change without notice.

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2025 NXP B.V.