

## General Description

The D7PRO ASIC is an MPEG-2/H.264 secondary distribution transcoder/encoder, multi-screen, and DPI solution for professional broadcast applications. The D7PRO provides high-density transcoding with high video quality and rich features, such as Dolby® audio support and ancillary data processing, along with multi-layer channel branding. Hardware-based accelerators provide high-quality rescaling, de-interlacing, and frame rate conversion, enabling the D7PRO to deliver industry-best video quality for HD, SD, and sub-SD resolutions for both main screen and multi-screen applications. The D7PRO dense encoder, utilizing sophisticated pre-processing, is the first dense encoder with primary distribution video quality.

## Applications

- High-density transcoder/encoder for secondary distribution
- Adaptive bitrate multi-screen transcoder for OTT streaming
- Digital program insertion for splicing in ads and local programming

## Features

- Complete, ready-for-market secondary distribution solution
- MPEG-2/H.264, SD/HD
- Dolby®, MPEG-1LII, AAC Audio
- Ancillary data handling
- DVB-compliant mux
- Frame accurate stat mux interface
- Channel branding
- Configurable look-ahead and latency
- Backed by two decades of award-winning video compression

## Ordering Information

Part	Usage	TDP	Pin-Package
DX7753	Transcoder	11.8 W	FCBGA 896pin 31x31mm
DX8773	Encoder	10 W	FCBGA 896pin 31x31mm
DX9773	Decoder	11 W	FCBGA 896pin 31x31mm

For price, delivery schedules, and to place orders, please contact IDT: [www.IDT.com/go/sales](http://www.IDT.com/go/sales)

## Device Diagram

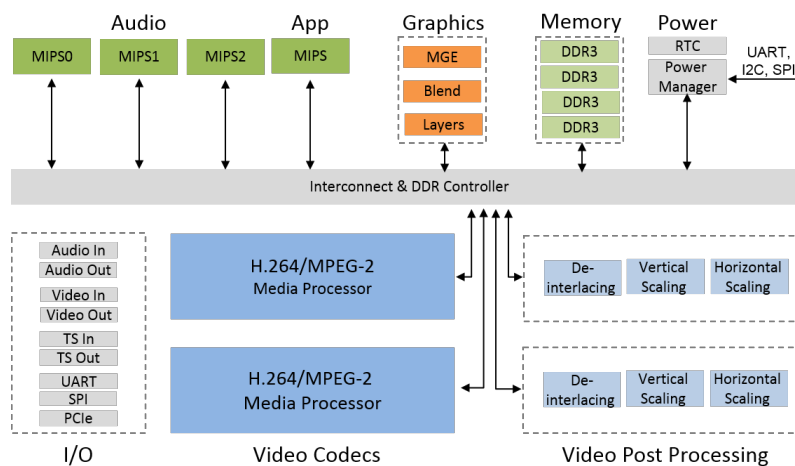


Figure 1: Device diagram

**Corporate Headquarters**

6024 Silver Creek Valley Road  
San Jose, CA 95138

[www.IDT.com](http://www.IDT.com)

**Sales**

1-800-345-7015 or 408-284-8200  
Fax: 408-284-2775

[www.IDT.com/go/sales](http://www.IDT.com/go/sales)

**Tech Support**

[www.IDT.com/go/support](http://www.IDT.com/go/support)

DISCLAIMER Integrated Device Technology, Inc. (IDT) and its affiliated companies (herein referred to as "IDT") reserve the right to modify the products and/or specifications described herein at any time, without notice, at IDT's sole discretion. Performance specifications and operating parameters of the described products are determined in an independent state and are not guaranteed to perform the same way when installed in customer products. The information contained herein is provided without representation or warranty of any kind, whether express or implied, including, but not limited to, the suitability of IDT's products for any particular purpose, an implied warranty of merchantability, or non-infringement of the intellectual property rights of others. This document is presented only as a guide and does not convey any license under intellectual property rights of IDT or any third parties.

IDT's products are not intended for use in applications involving extreme environmental conditions or in life support systems or similar devices where the failure or malfunction of an IDT product can be reasonably expected to significantly affect the health or safety of users. Anyone using an IDT product in such a manner does so at their own risk, absent an express, written agreement by IDT.

Integrated Device Technology, IDT and the IDT logo are trademarks or registered trademarks of IDT and its subsidiaries in the United States and other countries. Other trademarks used herein are the property of IDT or their respective third party owners. For datasheet type definitions and a glossary of common terms, visit [www.idt.com/go/glossary](http://www.idt.com/go/glossary). All contents of this document are copyright of Integrated Device Technology, Inc. All rights reserved.