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

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<th>Usage</th>
<th>TDP</th>
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<td>FCBGA 896pin 31x31mm</td>
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For price, delivery schedules, and to place orders, please contact IDT: www.IDT.com/go/sales

Figure 1: Device diagram
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