

M355ZCE216
1k units from:
€ 11.86

M355ZCE270
1k units from:
€ 13.96

TMDXEV355
Evaluation Module
€ 354



TMS320DM355

New Low-Cost DaVinci Platform

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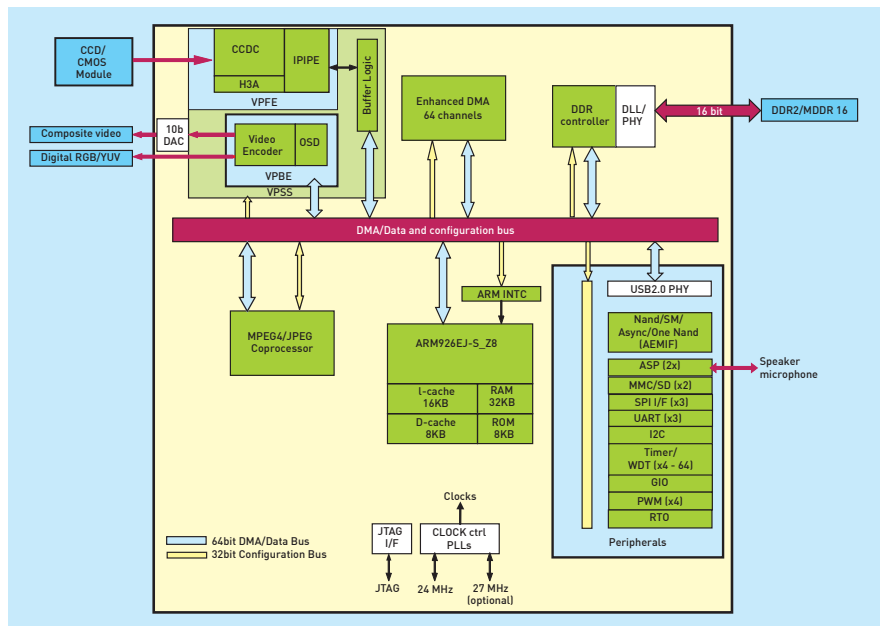
If your task is to make an application such as digital cameras, IP video cameras, digital photo frames or video baby monitors etc. you have to take a closer look of this new DaVinci Processor.

At a price level of €12, this new 90nm TMS320DM355 digital media processor gives you HD video performance and double the battery life of today's HD products. The core features the well known ARM926EJ-S RISC processor and uses pipelining so that all parts of the processor and memory system can operate continuously. The ARM core incorporates:

- A coprocessor 15 (CP15) and protection module
- Data and program Memory Management Units with table look-aside buffers. (full featured Linux, WinCE)
- Separate 16 Kbytes instruction and 8 Kbytes data caches. Both are four-way associative with virtual index virtual tag

The TMS320DM355 performance is enhanced by its MPEG4/JPEG coprocessor and performs the computational operations required for image processing; JPEG compression and MPEG4 video and imaging standard. The MPEG4/JPEG coprocessor supports MPEG4 SP at HD (720p), D1, VGA, SIF encode/decode resolutions and JPEG encode/decode up to 50M pixels per second. It also enables seamless interface to most additional external devices required for a complete digital camera implementation. The DM355 interface is also flexible enough to support various types, signal conditioning circuits, power management, DDR/mDDR memory, SRAM, NAND, shutter, Iris and auto-focus motor control.

Furthermore it features a Video Processing Subsystem with two configurable video/imaging peripherals, a Video Processing Front-End (VPFE) and a Video Processing Back-End (VPBE).



The VPFE port provides an interface for CCD/CMOS imager modules and video decoders and VPBE provides hardware On Screen Display (OSD) support and composite NTSC/PAL and digital LCD output.

To getting started you can buy a corresponding development tool - DM355 Digital Video Evaluation Module - this will help you quickly and easily create your portable, digital video devices with HD video capability.

Key Features

- High-Performance Digital Media
- System-on-Chip Digital Output
- 216/270MHz ARM926EJ-S Clock Rate
- Fully Software-Compatible With ARM9
- ARM9 Memory Architecture
- MPEG4/JPEG Coprocessor
- Video Processing Subsystem
- External Memory Interfaces (EMIFs)
- Flash Card Interfaces

- Enhanced Direct-Memory-Access
- USB Port with Integrated 2.0 High-Speed PHY
- Configurable Power-Saving Modes

Key Applications

- Personal Media Players
- PoS terminals
- Digital Cameras
- Video security
- IP Network cameras

Key Design Tips

- Code Composer Studio™ IDE
- TMS320DM355 Digital Video Evaluation Module
- Digital Video Software Production Bundle (DVSPB) based on DaVinci™ Technology
- MP3 Audio Encoder

Service available or already delivered T&R from Manufacturer.
Tapes are available, but not stocked at Avnet Logistics due to low demand.
Device supported by or programming equipment, but the socket for this package must be provided by customer.

P/N	Package	Programming	Taping & Reeling	Marking
TMS320DM355ZCE216	337-ball BGA			
TMS320DM355ZCE270	337-ball BGA			
TMDXEV355		Tool		