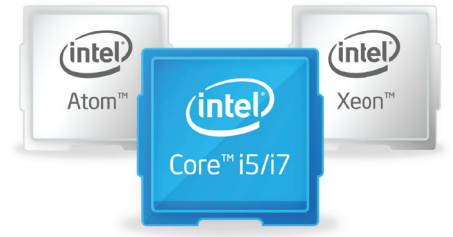


Digital Security Surveillance

Select the right Intel® processor for your design.

One of the main factors in digital security and surveillance (DSS) design is selecting the right processor for the channel density of the solution. Processor selection is critical to ensure that other applications and video analytics algorithms can be executed.

Intel® processors combine enhanced performance and lower CPU utilization, providing the processing power to meet DSS requirements today with the headroom for future HD video applications tomorrow. Scalability across Intel processor families enables developers to develop solutions for a wide range of DSS applications, protecting your software investments. Intel processors consolidate multiple workloads onto a single architecture for cost-efficient development. High-performance video processing based on the Intel® HD Graphics 4000 Technology in 3rd generation Intel® Core™ processors is integrated into the CPU, eliminating the need for discrete signal processing components and reducing design and software development costs.



Choose the Right Processor for Your DSS Solution

Where is an Intel® Atom™ processor appropriate?

- Edge devices
- Low video-channel count network video recorders, servers, and decoders
- Entry NAS appliances

Where is an Intel® Core™ processor appropriate?

- Small to medium sized business
- NVRs, DVRs hybrid DVRs, video management servers
- Workload performance for all-in-one servers and storage
- Intel® AMT / remote management for TCO savings

Where is an Intel® Xeon® processor appropriate?

- Corporate to enterprise
- Enterprise class, intelligent NVRs, video management servers, video analytics servers, storage arrays / SAN
- Best in class network and storage I/O for demanding video throughout requirements
- Performance for high video-channel count deployments

Features & Benefits	Intel® Atom™ Processor	Intel® Core™ i5/i7 Processors	Intel® Xeon® E3 Processors
	Basic Surveillance at a Great Value	Higher Levels of Audience Engagement and ROI	Great Workload Consolidation for Maximizing ROI
Data and Media Intensive Applications	X	✓	✓
Smart Security and Manageability (Intel® vPro™ Technology)	X	✓	✓
Encryption and Compression	X	✓	✓
Intelligent Energy Efficiency	X	✓	✓
Media Rich Multi-Tasking	X	✓	✓
More Than 4 HD 1080p Video Playback	X	✓	✓
Dual Independent Display Support	✓ ¹	✓	✓
Three Independent Display Support	X	✓	✓
Multi-Zone Screen Layout	✓	✓	✓
HW HD Accelerated Decode MPEG2, VC1, H264	✓	✓	✓
More than 4 (Max. 24 ²) HD 1080p Decode	X	✓	✓
More than 4 HD 1080p Encode	X	✓	✓
More than 8 HD 1080p Video Transcoding ³	X	X	✓
Video Analytics — Entry	✓	✓	✓
Video Analytics — Advanced	X	✓	✓
Video Analytics — 3D	X	✓	✓
Central Video Management System	X	X	✓
Building Automation and Video Surveillance Integration	X	X	✓
Direct Attach Storage Integration	X	X	✓

¹ Dual-display is supported only in 2011 Intel® Atom™ processor-based desktop boards.

² Only applicable to 3rd Generation Intel® Core™ i7 platform.

³ Only applicable to 3rd Generation Intel® Xeon™ E3 platform

Copyright ©2013 Intel Corporation. All rights reserved. Intel, the Intel logo, and Xeon are trademarks of Intel Corporation in the U.S. and other countries.

* Other names and brands may be claimed as the property of others. 0313/MW/MB/PDF 328665-001US