

Application Note  
Intel® Digital Security Surveillance  
Digital Security



# Intel® Digital Security Surveillance

When Safety Is Critical



# High-value protection and security for less

The digital security surveillance industry is evolving quickly. To keep up with the needs of innovative and sophisticated security and monitoring requires more computing capacity, higher reliability, faster connectivity, and greater storage abilities found in the advanced technologies of Intel® Digital Security Surveillance platforms.

The Intel Digital Security Surveillance platform is available in a new fanless configuration for companies needing robust and powerful, yet smaller, more compact solutions. This new fanless Intel Digital Security Surveillance platform delivers broader bandwidth for higher video resolution, greater storage capacity, and high-performance computing in a dense, low-power platform. A fanless platform option reduces design requirements, while lower power consumption relieves power and cooling demands in digital security surveillance infrastructures.

Feature	Benefit
Low-power, fanless platform	<ul style="list-style-type: none"> <li>Intel® Core™ Duo processor LV (1.5W) and Intel® Core™ Duo processor SV (31W) enable powerful dual-core computing at very low power</li> <li>Reduced design requirements (no fan required)</li> <li>Reduce environment (fan) noise, lower power and cooling requirements</li> </ul>
Dual-core processing	<ul style="list-style-type: none"> <li>Increased performance for multi-threaded code</li> <li>High processing throughput for Streaming SIMD 3 (SSE3) instructions accelerates video processing</li> <li>667 MHz system bus for high system throughput</li> <li>Large 2 MB L2 cache keeps more data closer to the cores for faster execution</li> </ul>
I/O Scalability with PCI Express* or PCI*	<ul style="list-style-type: none"> <li>Supports multiple capture cards</li> <li>Supports four or more channels of D1 resolution or 16 channels of CIF resolution<sup>1</sup> (depending on capabilities of capture card)</li> <li>Supports both PAL and NTSC</li> <li>High I/O bandwidth provides headroom for high-resolution video from multiple cameras</li> </ul>
Intel® Matrix Storage Technology	<ul style="list-style-type: none"> <li>Reliable RAID 0/1 storage of critical video data</li> <li>Data striping/mirroring for secure, safe data storage</li> </ul>
Dual on-board Gigabit Ethernet	<ul style="list-style-type: none"> <li>Fast connectivity for data network</li> <li>High-speed IP camera connectivity option</li> </ul>
Intel® Active Management Technology <sup>2</sup>	<ul style="list-style-type: none"> <li>Out-of-band system management enables asset management regardless of system state</li> <li>Persistent asset inventory improves equipment audit efficiency</li> </ul>
Trusted Platform Module (TPM)	<ul style="list-style-type: none"> <li>Enhances platform security with protected space for security-critical tasks</li> </ul>



## A truly trusted platform

The Trusted Platform Module (TPM) enhances platform security above-and-beyond the capabilities of today's software by providing a protected space for key operations and other security critical tasks. Using both hardware and software, the TPM protects encryption and signature keys at their most vulnerable stages.

## Optional features enhance security and usability

Integrated TV-out, PCIe x16 video interface, and biometrics authentication options extend the rich functionality and security of the Intel Digital Security Surveillance platform.

For more information, visit [www.intel.com/info/dss](http://www.intel.com/info/dss).

<sup>1</sup>Based on Huperlab's huperDVR 2400 v1.3 system software.

<sup>2</sup>Intel® Active Management Technology requires the platform to have an Intel® AMT-enabled chipset, network hardware and software, connection with a power source and a network connection.

<sup>3</sup>PCI-E riser card with Intel 41210 bridge for extended scalability.

<sup>4</sup>Based on Intel's next-generation mobile processor for 945GM chipset platform.

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