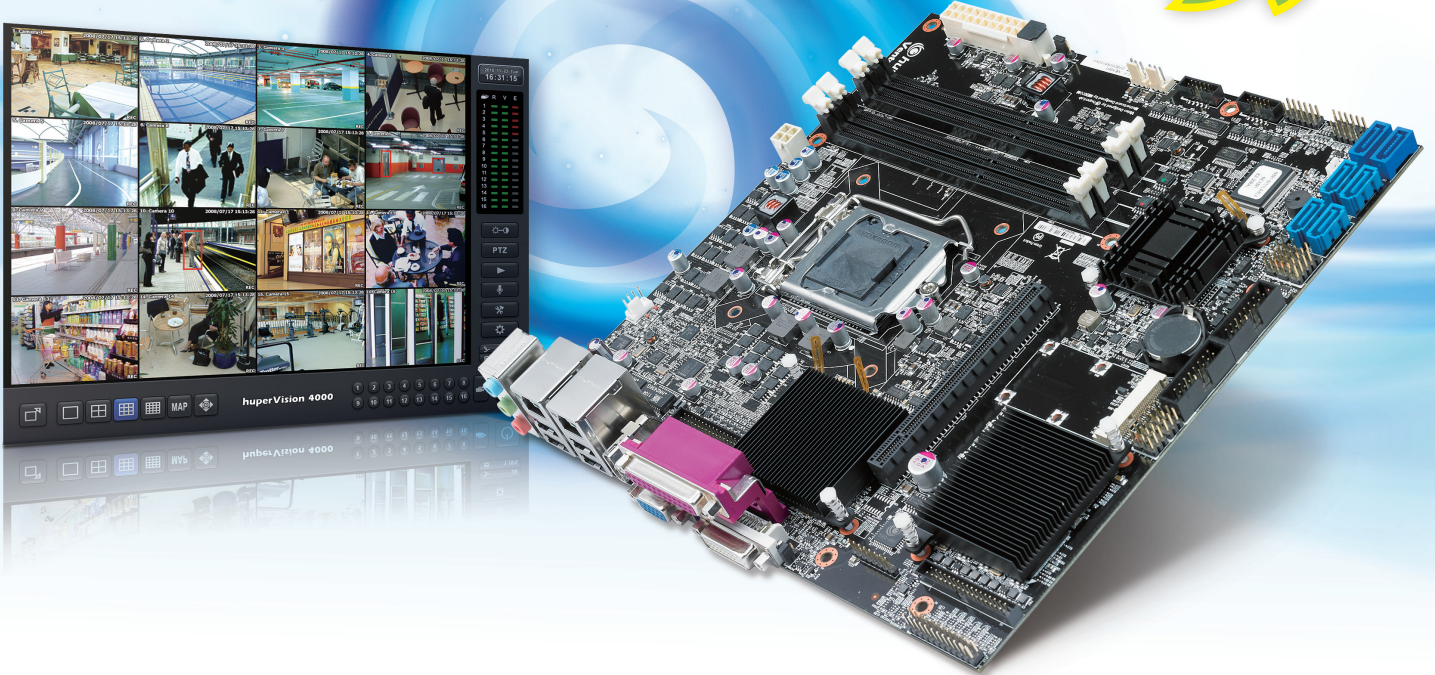


Support 2nd
Generation
Intel® Core™
Processors



Vento2_{516Q/532Q}

huperVision 4000 DSS Server Board

The Industrial Embedded Server Board for Surveillance Use

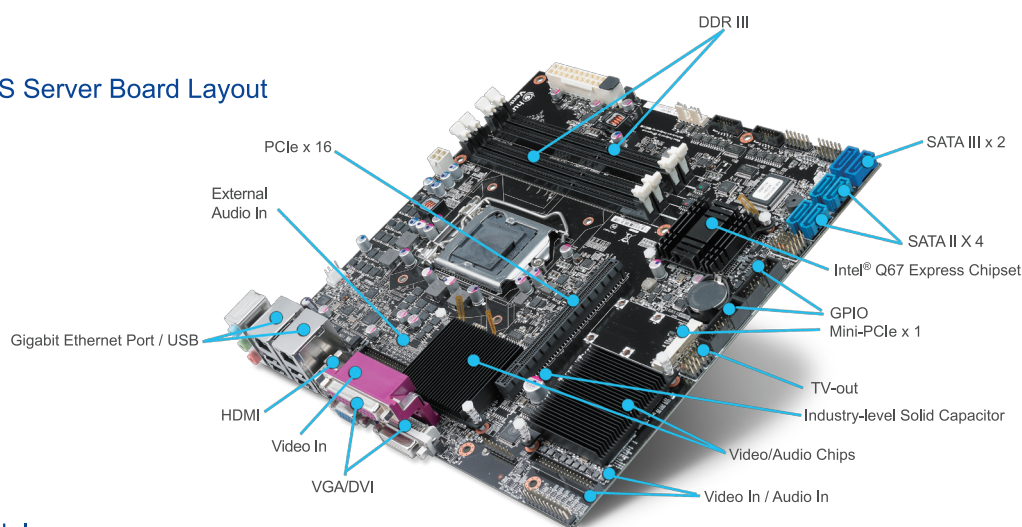
huperVision 4000 DSS Server Board Vento2 series, embedded with video/audio chips, is an industrial level, all-in-one server board exclusively for surveillance use. Designed for 2nd Generation Intel® Core™ Processors, this MicroATX server board provides up to 32CH real-time display and recording at D1 resolution. Its "True Hybrid" design allows free combination of IP and CCTV cameras. With add-on huperVision HD DVR/DVR/NVR cards, the Vento system can further be expanded for larger scale surveillance or even become the HD "Tribrid" DVR/NVR connecting with HD-SDI CCTV and Megapixel network cameras. Running with huperVision 4000 intelligent surveillance software suite, the Vento2 DSS Server Board provides a wide range of video analytics and full-featured remote surveillance for different usage scenarios.

- Up to 32CH 960FPS/800FPS @D1 Display & Recording
- Industry-level Board Design Exclusively for Surveillance Use
- True Hybrid DVR/NVR
- Ideal for 1080p/720p HD & Large Scale Surveillance
- Up to 8 Spot Monitor TV-out Support
- Windows Embedded DOM Support Ready
- huperVision 4000 Intelligent Surveillance Software Suite

Note: **1 Add huperVision HD-SDI DVR / 4700 Series DVR Cards or NVR License Keys for system expansion.
**2 Some of huperVision 4000 intelligent video analytics are optional. Please refer to huperVision 4000 product specifications for details.



Vento2 DSS Server Board Layout



Product Models

Product Model	Vento2 532Q			Vento2 516Q		
	Vento 532Q-960	Vento 532Q-480	Vento 532Q-240	Vento 516Q-480	Vento 516Q-240	Vento 516Q-120
Video Input (Analog)	32			16		
Audio Input	32			16		
Display Rate (NTSC/PAL)	960/800FPS @ D1			480/400FPS @ D1		
Recording Rate (NTSC/PAL)	960/800FPS			480/400FPS		
720x480 / 720x576 320x240	960/800FPS	480/400FPS 960/800FPS	240/200FPS 960/800FPS	480/400FPS	240/200FPS 480/400FPS	240/200FPS 960/800FPS
TV-out Support	8			4		
IP Camera Input (Max.)	32			16		
GPIO	16			16		
Surveillance Software	huperVision 4000 Intelligent Surveillance Software Suite					

Note: Product specifications and pictures are subject to change without prior notice.

Digital Video Specifications

Item	Vento2 532Q	Vento2 516Q
Video Inputs	32	16
Audio Inputs	32	16
Video Resolution	720 x 480 / 720 x 576, 704 x 480 / 704 x 576, 720 x 240 / 720 x 288, 640 x 480, 640 x 240, 320 x 240	720 x 480 / 720 x 576, 704 x 480 / 704 x 576, 720 x 240 / 720 x 288, 640 x 480, 640 x 240, 320 x 240
Display Rate (NTSC/PAL)	Up to 960/800FPS @ D1 resolution	Up to 480/400FPS @ D1 resolution
Recording Rate (NTSC/PAL)	Up to 960/800FPS @ D1 resolution	Up to 480/400FPS @ D1 resolution
GPIO	16	16
Watch Dog	Yes, hardware & software reset for anti-freeze protection	Yes, hardware & software reset for anti-freeze protection

Server Board Specification

Item	Description
Chipset	Intel® Q67 Chipset
Form Factor	MicroATX (9.6 inch x 8.9 inch / 24.4 cm x 22.6 cm)
Processor	Intel® Socket 1155 for 2nd Generation Core™ i7/Core™ i5/Core™ i3 Processors, Pentium® processor, and Celeron® processor
Memory Type	Support DDR3 1066/1333MHz SDRAM with Non-ECC, un-buffered
Max. Memory	16GB
Memory Slot	DDR3 DIMM x 4
Expansion Slots	One PCI Express x16 / One Mini-PCI Express
Video In	16/32 CH video inputs (10 bit ADC)
Graphics	Intel® integrated graphic engine Dual Display : • VGA + DVI • VGA + HDMI • DVI + HDMI
Storage Interface	SATA 3.0 x 2 / SATA 2.0 x 4
LAN	Dual 10/100/1000 LAN (ETH0 support Intel AMT 7.0)
Audio	Realtek ALC886 HD
Internal I/O	USB2.0 x 2 / Front Audio x 1 / COM x 2
Rear I/O	USB2.0 x 4 / LAN (RJ45) port x 2 / Audio jack x 3 / 16CH Video In (LPT Port) x 1 / VGA x 1 / DVI x 1 / HDMI x 1
Internal Serial Ports	COM1: RS232/422/485, 2x5/2.0 Box header COM2: RS232/422/485, 2x5/2.0 Box header "

Note:

- Vento2 532Q provides 1 slot of PCIe x1 and 1 slot of Mini-PCle x1; Vento 516Q provides 1 slot of PCIe x1
- Vento2 series DSS Server Board is available in a wide range of product models by customer requests. Please contact huperLab sales for more information.
- The 16CH audio connector is not included in the standard package, and requires extra purchase.
- TV-out cable with bracket is optional.
- Running with huperVision 4000 v1.55 intelligent surveillance System and above.
- Some video analytics in huperVision 4000 are optional. Please refer to huperVision 4000 product specifications for details.
- Product specifications and pictures are subject to change without prior notice.
- Product is not warranted if the product is modified, altered or repaired without authorization by huperLab.



Huper Laboratories Co., Ltd.

Address: 10F, No. 577, Linsen N. Rd. Taipei 104, Taiwan
Tel: +886-2-2599-4041 Fax: +886-2-2599-4161
http://www.huperlab.com E-mail: sales@huperlab.com