New Generation x86 Smart Camera

Accelerating development time for high-end machine vision applications

➤ Best performance available with IP67 housing
➤ Optimal I/O and software integration
➤ Advanced image processing

ADLINK's newest evolution of x86 smart cameras provides FPGA coprocessors, GPU, and multi-core CPU, for superior power and development flexibility, improving on conventional smart cameras' all-in-one solutions, compact size, moderate computing power and resolution. Additionally, GenTL support for image acquisition and Open CV and Open CL programming support all significantly benefit developers.

Why ADLINK Smart Camera?

High Performance

- Equipped with 4 MP, 60fps, global shutter sensor for high-speed inspection
- Quad Core Intel® Atom™ Processor E3845 1.91 GHz improves dramatically on the performance of conventional smart cameras

Maximum Integration

- Supports GigE Vision 1 slave camera, reducing TCO for multi-camera inspection applications
- Built-in PWM lighting control, integrated to make communication with external devices more flexible
- 4 x Digital inputs, 4 x Digital outputs, USB 2.0 port, RS-232 ports

Easy Development

- Software support with MVTec HALCON, STEMMER IMAGING Common Vision Blox, Adaptive Vision, Open CV, Open CL and many others
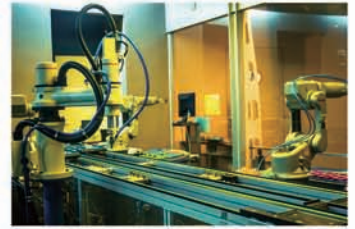- GeniCam and GenTL compatible for image acquisition

Coming Soon

	Neon-1020	Neon-1040
Processing & Memory		
Processor	Intel Atom E3845 Processor, Quad Core @ 1.91 GHz	
Display	VGA output, max. 2560 x1600 at 60 Hz	
RAM	2 GB DDR3L	
Storage	16 to 32 GB solid state drive	
Advanced Processing	ROI, LUT, Shading Correction	
Sensor		
Image Sensor	CMV200	CMV200
Resolution	2048 x 1088	2048 x 2048
Sensor Size	2/3"	1"
Pixel Size (μm)	5.5	
Frame Rate (fps)	120	60
Shutter	Global	
Trigger Mode	External trigger, software trigger, free run	
I/O Interface		
Trigger Input	1x Opto-isolated trigger input	
Digital Output	4x sink type output, max sink 100mA sink voltage max 30VDC	
Digital Input	4x TTL level input	
Lighting Control — Drive Method	Constant current 500 mA	
Lighting Control — Intensity	PWM control, Max. 125 KHz	
Lighting Control — Applicable Light Units	12 VDC to 24 VDC illuminators	
Lighting Control — 20KHz	1000 steps	
Ethernet	1 x GbE	
Serial Communication	1 x RS-232	
USB	1 x USB 2.0	
Mechanical		
Dimensions	68.5mm W x 110mm D x 52.7 mm H / 2.70" W x 4.33" D x 2.08" H (68.5mm x 110mm x 42.7mm reduced size option)	
Lens mount	C mount	
Connectors	1xM12 8-pin (Female), 1xM12 17-pin (Male), 1x M12 12-pin (Male)	
Software Support		
Operation System	Windows 7, Windows Embedded Standard 7	
Environmental & Electrical		
Power Consumption	12 to 24 VDC +/-10%, 13W (typical)	
Operating Temperature	0˚ to 50 ˚C	
Vibration	Operating, 5 Grms, 5-500 Hz, 3 axes	
Certification	IP67, CE, FCC Class A	

Contact ADLINK sales for product availability.