

E-CAM

IP Camera with PoE Option



Description

Smart Network Devices (SND) E-CAM is a high performance IP camera with low power consumption and optimal processor loading for low cost OEM system solutions and is ideal for many applications in addition to the basic video streaming. It is available with many customer options or can be used as the basis for a customised solution.

Demo Kit / Sample

The Demonstration Kit has the on board FLASH pre-programmed with the HyNetOS v3 Operating System with communication protocols, and video streaming applications. It is supplied with 2 Ethernet cables, a multi mains adapter and voltage power supply with Power over Ethernet adapter, and CD with Administration Tools and Microsoft .Net video stream viewer in source code.

Alternatively a video HTTP Server can be utilised by using an Internet Browser with Java.

Development Kit

The Development Kit comes as the Demo Kit (except pre-programmed FLASH) but with fully featured Software Development Tools included. Application software can be developed in C.

Customised Solutions

As well as the options outlined below, customers will be able to choose various types of image sensors and positioning, physical dimensions, housings, lens mounts and lenses, Ethernet sockets, on board power supply alternatives, and lighting.

Additional Information

For further information on SND, IP Camera Modules, and other products see: <http://www.smartnd.com>.

Specification Table	E-CAM (Monochrome)	E-CAM (Colour)
<i>Technology</i>	CMOS Sensor 1/3 inch	CMOS Sensor 1/5 inch
<i>Array Format:</i>	Wide-VGA, QVGA, CIF, QCIF,	VGA / QVGA, CIF,
<i>Active pixels</i>	752H x 480V	640H x 480V
<i>Color filter array</i>	Monochrome	YUV/YCbCr, RGB, Raw RGB
<i>Shutter type</i>	Global Shutter	Rolling Shutter (Progressive)
<i>Raw Frame rate</i>	60 fps (at full resolution)	Up to 60 fps (QVGA)
<i>Dynamic range</i>	>80dB-100dB in HiDy Mode	>72dB
<i>Sensitivity</i>	4.8 V/lux.sec (550nm)	1.0 V/lux-sec
<i>Operating temperature</i>	0°C to +70°C, (IND. optional)	-20°C to +70°C
<i>Lens Mount (Optional, included with Kits)</i>	M12	M5
<i>Lens (Optional, included with Kits)</i>	Glass, Optical length 3.8 (infra red filter option), 6 or 8mm	Plastic
<i>Compressed Frame rate</i>	~5fps (software only)	>25 fps (VGA), 30 (CIF), 40 (QVGA)
<i>Compressed Image Size (typical)</i>	15KB (Wide-VGA)	30KB (VGA), 12KB (CIF), 15KB (QVGA)
<i>Operating System</i>	HyNetOS inc. TCP/IP, HTTP, FTP etc. See HyNetOS v3 flyer for further details.	
<i>Software Development Tools</i>	Administration Tools (Demo Kit) or Full Feature Set (Dev. Kit)	
<i>Supply voltage</i>	PoE (9V – 48V DC)	
<i>Power Consumption</i>	2W	
<i>CPU type & max. speed</i>	32 bit RISC/DSP, up to 180 MHZ	
<i>Interfaces</i>	Ethernet 10/100Base-TX, Digital Output Opto Isolated.	
<i>IP66 / 67 Housing dimension (Optional, included with Kits)</i>	65 x 53 x 35mm	
<i>PCB dimension</i>	59 x 47 x 14mm	