



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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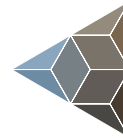
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eCAM-BF

The embedded camera platform



BLUETECHNIX
Embedding Ideas

The upcoming eCAM camera platform stands for state of the art processor technology combined with outstanding image processing software to build a modular, intelligent embedded camera system integrated into a smart housing with high quality optics. This platform grows with the market demands due to its System-on-Module (SOM) based hardware design. The housing stays the same whereas the processing hardware can be exchanged.

The first hardware release is based on Bluetechnix' latest ADSP-BF561 SOM called CM-BF561. This powerful Blackfin® based dual core (2 x 600MHz) module with a large number of peripheral interfaces and a huge memory capacity of 128MByte SDRAM and 32MByte NOR flash, are the perfect basis for your high end image processing applications. The eCAM can be bought with a complete board support package that can be tailored to your requirements.



based on **BLACKfin®**

Highlights

- » Powerful Blackfin® based hardware
- » High resolution camera
- » Plug & Play camera kit
- » Mountable smart housing
- » Stand alone intelligent camera
- » Rich BSP & free software available

Applications

- » Object Recognition Systems
- » Industrial Vision
- » Security & Surveillance
- » Advanced Driver Assistance Systems
- » Automation and Control

Ordering Information

Order No.	Info
150-0001-1	eCAM-BF based on BF561 and MT9M131 CS mount
106-2203	BLACKSheep® OS

eCAM-BF

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Software Overview

The eCAM can be bought with a complete board support package that can be tailored to your requirements. In addition to this the “Video Analytics Toolbox” a C-callable API for the Blackfin processor, can be used. This video analytics tool can be used in video surveillance for detection of events such as intrusion detection, left/removed object detection, foreground objects/blob detection etc.

- » **BLACKSheep® OS full BSP**
- » **Video Analytics Toolbox from Analog Devices**
- » **uClinux**

BLACKSheep® OS BSP Features

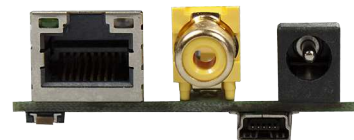
- » RTOS based on VDK from ADI
- » Embedded webserver
- » JPEG encoder
- » Ethernet drivers
- » Streaming support
- » Frame grabber
- » Peripheral drivers (SD-Card, flash, SPI, etc.)
- » Multithreaded environment

Video Analytics Toolbox Features

- » Detection of foreground objects
- » Output Status: Detected Objects
- » ROI : Region of Interest specified to enable detection only in regions of specific interest
- » Configurable: Three versions of the algorithm for scalability. Algorithms are configurable by user
- » Decimation: Input can be scaled by half both horizontally and vertically for reduced resolution support
- » Primitives : VAT Primitives'API library

Feature Overview

PROCESSOR	Analog Devices ADSPBF561	
CLOCK	2 x 600MHz	
RAM	128 MByte SDRAM	
FLASH	32MByte NOR	
IMAGER	Aptina MT9M131 - up to 15 fps @ 1280H x 1024V - 30 fps @ 640H x 480V	
INTERFACES	COMPOSITE	1
	ETHERNET	1x10/100MBit Ethernet PHY
	USB 2.0	1 x Device
	LENS MOUNT	M12 or CS mount lenses
POWER SUPPLY	12V _{DC}	
TEMPERATURE RANGE	Commercial 0 to +70 °C	
TRIPOD MOUNT	1 x 1/4"	
DIMENSIONS	143 x 55 mm (without lense)	



eCAM-BF connector view

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