

# Argos®<sup>2D</sup> - D100

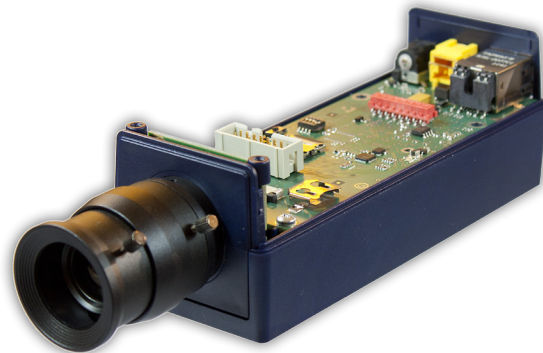
The smart CDK - Camera Dev. Kit



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The Argos 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 Argos<sup>2D</sup> - D100 can be bought with a complete board support package that can be tailored to your requirements.



Argos<sup>2D</sup> - D100 without cover

based on



## 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	Argos <sup>2D</sup> - D100 CDK based on BF561 and MT9M131 CS mount
106-2203	BLACKSheep® OS

# Argos<sup>®2D</sup> - D100

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## Software Overview

The Argos<sup>2D</sup> - D100 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<sup>®</sup> OS full BSP**
- » **Video Analytics Toolbox from Analog Devices**
- » **uClinux**

### BLACKSheep<sup>®</sup> 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

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



Argos<sup>2D</sup> - D100 connector view

### BLUETECHNIX GmbH

Waidhausenstraße 3/19 | 1140 Wien, Austria  
P +43 (1) 9142091 x 0 | F +43 (1) 9142091 x 99  
www.bluetechnix.com | office@bluetechnix.com