

# CDK - CAMERA DEVELOPMENT KIT

## Blackfin® Starter Package

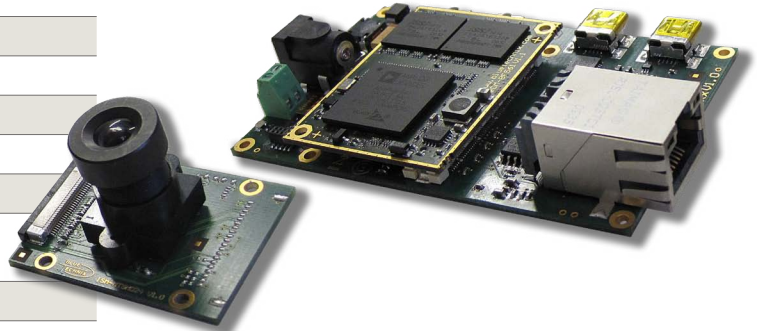
Video surveillance, machine vision, object counting, scientific imaging and other industrial and commercial applications are receiving much attention because of their safety, security and automation potential. Bluetechnix latest product a Camera-Development-Kit (CDK) is especially designed for your future embedded smart camera systems. The kit consists of a development board CDEV-BF5xx, a powerful Blackfin® based Core Module eCM-BF561 and an Image Sensor Module ISM-MT9M024.

Based on Bluetechnix' long experience in industrial and commercial embedded systems design, this kit is suited to the market requirements to decrease time-to-market of your industrial applications. The form factor of CDEV-BF5xx allows an easy integration of the kit into OEM products. Dedicated interfaces such as Ethernet, CAN, USB2.0 and a micro SD-Card slot turn the CDEV-BF5xx into a full-featured development platform for most industrial and commercial camera applications.

### Core Module eCM-BF561

The Core Module eCM-BF561 is optimized for performance and parallel data processing. It is based on the high performance ADSP-BF561 from Analog Devices. The eCM-BF561 is designed for commercial applications (commercial temperature range). It addresses 128MByte SDRAM via its 32bit wide SDRAM bus, and has an onboard NOR-flash of 32MByte.

<b>PROCESSOR</b>	ADSP-BF561SKBCZ-6A Blackfin® embedded processor (Dual Core)
<b>CLOCK</b>	Up to 600MHz
<b>L1 CACHE (per core)</b>	16kByte instruction and 32kByte data
<b>L2 CACHE (shared)</b>	128kByte
<b>RAM</b>	128MByte SDRAM up to 133MHz
<b>FLASH</b>	32MByte NOR
<b>TEMPERATURE RANGE*</b>	Commercial (0°C to +70°C) or Industrial (-40°C to +85°C)
<b>ADDITIONAL</b>	On-Board core voltage regulator Low voltage reset circuit



CDK: CDEV-BF5xx with eCM-BF561 and ISM-MT9M024

\*Industrial on request only (-40° to 85°C)

### Image Sensor Module ISM-MT9M024

The MT9M024 CMOS digital image sensor from Aptina is a completely integrated, ultra-low power, cost effective camera system which offers a High-Dynamic-Range and a linear capturing mode with rolling-shutter readout.

<b>Optical format</b>	1/3-inch (6mm)	<b>Dynamic range</b>	>115dB
<b>Active pixels</b>	1280H x 960V	<b>Frame rate</b>	60 fps at 1280 x 720p
<b>Imaging Area</b>	3.54mm (H) x 2.69mm (V)		45 fps at 1280 x 960
<b>Resolution</b>	1.2Mp	<b>Automotive qualified</b>	AEC-Q100, Grade 2

### Ordering Information

<b>Order No.</b>	<b>Info</b>
100-3106	CDK - Camera Development Kit CDEV-BF5xx with eCM-BF561 and ISM-MT9M024

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