

ISM-MT9M025

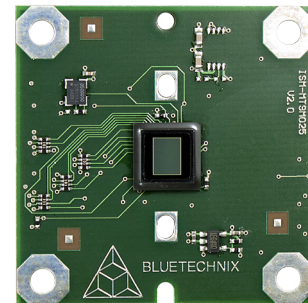
Image Sensor Module



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Embedding Ideas

The ISM-MT9M025 integrates Aptinas MT9M025 image sensor, oscillator, voltage control and a M12 or CS-mount lens-holder to support numerous M12 or CS-mount lenses at a size of 40 x 40mm.

The MT9M025 CMOS digital image sensor from Aptina has an active-pixel-array of 1280H x 960V (1.2MP). This sensor can capture in either liner or high-dynamic-range (HDR) mode with rolling-shutter readout. The sensor can be programmed via a simple I²C interface and offers some sophisticated camera functions such as auto exposure control, windowing and both video and single frame modes. The sensor is able to capture in continuous mode for videos or single frame mode for clear sharp images for both low light and high dynamic range scenes.



ISM-MT9M025 top view

Further information at www.bluetechnix.com/goto/ism-mt9m025

Feature Overview

OPTICAL FORMAT	1/3-inch (6mm)
ACTIVE ARRAY	1280H x 960V (1.2MP)
CHROMA*	Color, Mono, RCCC
FPS	Full resolution 45fps 720p 60fps
SHUTTER TYPE	Electronic Rolling Shutter
DATA RATE	27Mb/s
INPUT CLOCK	50MHz
OUTPUT SERIAL	HiSPI 12, 14 or 20 bit on request
OUTPUT PARALLEL	12 bit
SUPPLY VOLTAGE	2.5V - 3.1V
BLT-ISM-CONNECTOR	Yes
OPERATING TEMPERATURE	-40°C to +85°C
SUPPORTED LENS MOUNT	CS Mount, M12
DIMENSIONS	40 x 40mm

*depends on version - see ordering information

Ordering Information

Order No.	Info
100-3200-2	ISM-MT9M025-Color
100-3206-2	ISM-MT9M025-Mono
100-3208-2	ISM-MT9M025-RCCC

Applications

- » Automotive
- » Stereo Vision
- » Surround View
- » Machine Vision
- » Object Recognition

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