



## Product Overview

### LUPA1300-2: CMOS Image Sensor, High Speed

For complete documentation, see the [data sheet](#)

#### Product Description

LUPA1300-2 is an integrated SXGA high speed, high sensitivity CMOS image sensor. This sensor targets high speed machine vision and industrial monitoring applications. The LUPA1300-2 sensor runs at 500 fps and has triggered and pipelined shutter modes. It packs 24 parallel 10-bit A/D converters with an aggregate conversion rate of 740 MSPS. On-chip digital column FPN correction enables the sensor to output ready to use image data for most applications.

#### Features

- Integrated digital column FPN correction
- Runs at 500 fps and has triggered and pipelined shutter modes
- 24 parallel 10-bit A/D converters with an aggregate conversion rate of 740 MSPS
- Industrial monitoring

#### Benefits

- Enables the sensor to output ready to use image data

#### Applications

- High speed machine vision

#### Part Electrical Specifications

| Product          | Compliance             | Status | Type | Megapixels | Frame Rate (fps) | Optical Format | Shutter Type                   | Pixel Size (µm) | Color | Package Type |
|------------------|------------------------|--------|------|------------|------------------|----------------|--------------------------------|-----------------|-------|--------------|
| NOIL2SC1300A-GDC | Pb-free<br>Halide free | Active | CMOS | 1.3        | 500              | 1 inch         | Pipelined and Triggered Global | 14 x 14         | Color | CPGA-168     |
| NOIL2SM1300A-GDC | Pb-free<br>Halide free | Active | CMOS | 1.3        | 500              | 1 inch         | Pipelined and Triggered Global | 14 x 14         | Mono  | CPGA-168     |

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