

# GCINE3243

43 MP 3.2  $\mu\text{m}$  ROLLING SHUTTER CMOS IMAGE SENSOR



**GCINE3243** is a back-illuminated, stacked CMOS image sensor with 8K resolution in an APS-C format. It's excellent sensitivity, high dynamic range, fast frame rate, and low noise are ideal for professional video applications and scientific imaging. The sensor captures 8K video at 60 fps, or using on-chip 2x2 binning, 4K video at 120 fps, both at 14 bit resolution. The chip also supports 6K M43, 4K Super 16 and other popular video formats. Multiple HDR functions are available including dual-gain, compression, and multi-slope. The maximum data rate is 33.6 Gbps, delivered through up to 32 pairs of LVDS channels



## Key Features and Benefits

- ▶ Stacked BSI Architecture
- ▶ High Full Well Charge
- ▶ High Dynamic Range
- ▶ Low Noise
- ▶ Multi-Slope HDR
- ▶ Dual Gain HDR

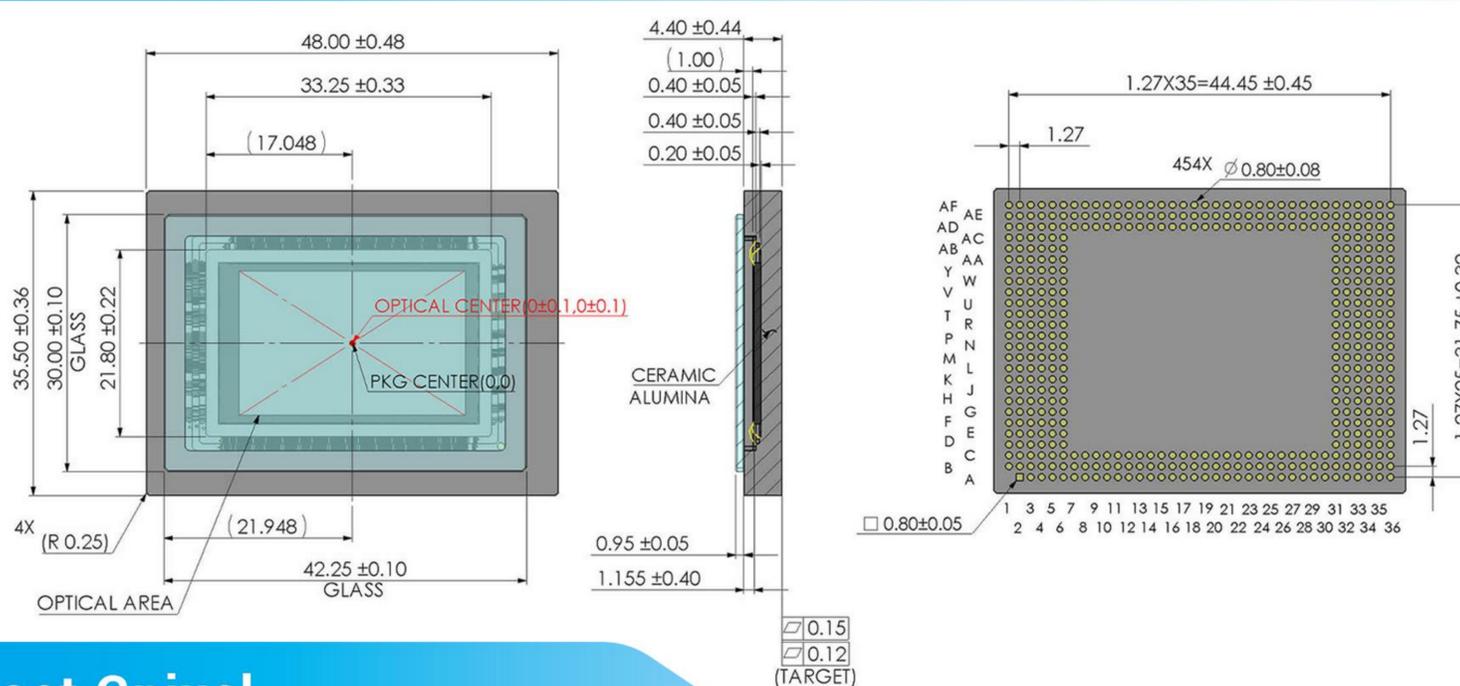
## Applications

- ▶ Cinematography
- ▶ Unmanned Aerial Vehicles (UAV)

# Specifications

Nr of Active Pixels	8192 (H) x 5232 (V)	Optical Format	APS-C
Pixel Size	3.2 $\mu\text{m}$ x 3.2 $\mu\text{m}$	Photosensitive Area	26.2 mm x 16.7 mm
Shutter Type	Rolling Shutter & DSC	Peak QE	80% (550 nm, Mono)
Full Well Capacity	96 ke <sup>-</sup> (Multi-Exposure Mode)	Temporal Noise	2.5 e <sup>-</sup> (DSC High Gain Mode)
Max. SNR	50 dB	Dynamic Range	81 dB (8K HDR mode)
Max Frame Rate	60 fps (8K) 120 fps (4K)	Output Format	32 ch Sub-LVDS
Max. Data Rate	33.6 Gbps	ADC	14 bit
Chroma	RGB, Mono	Power Consumption	2 W–4 W
Supply Voltage	3.3 V, 1.8 V, 1.25 V -2.2 V, 4.5 V	Package	455 pins LGA (48.0 mm x 35.5 mm)

# Package Drawing



# Contact Gpixel

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GP-PR250801 V1.1