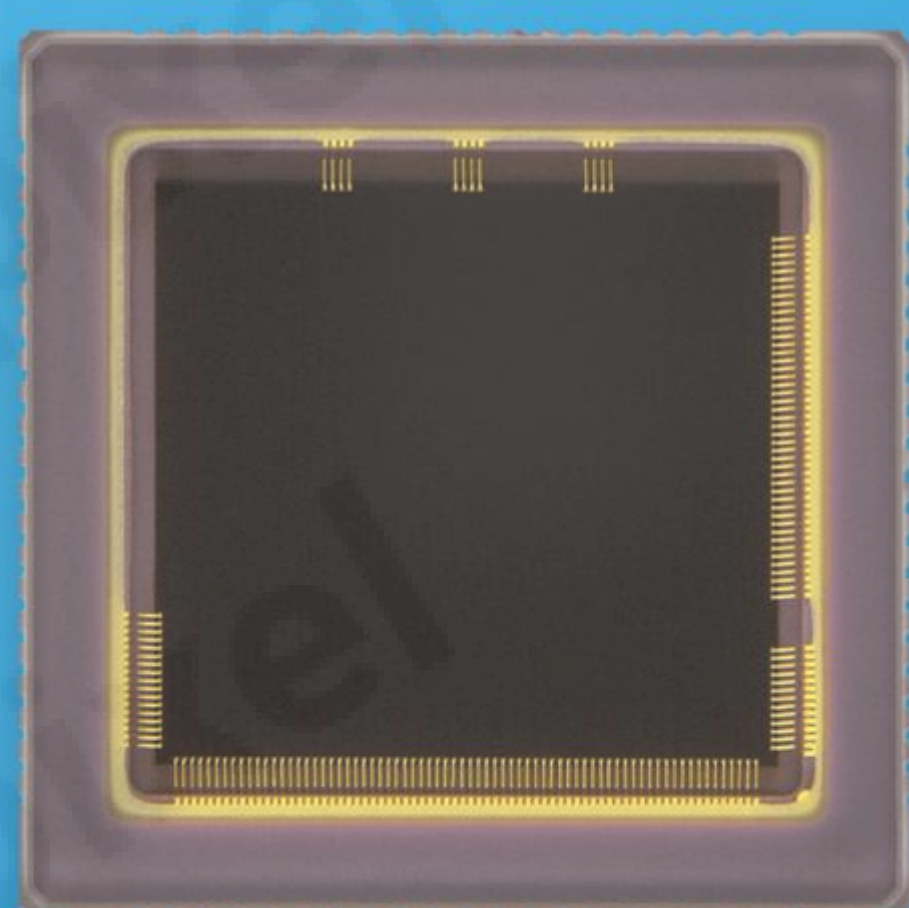


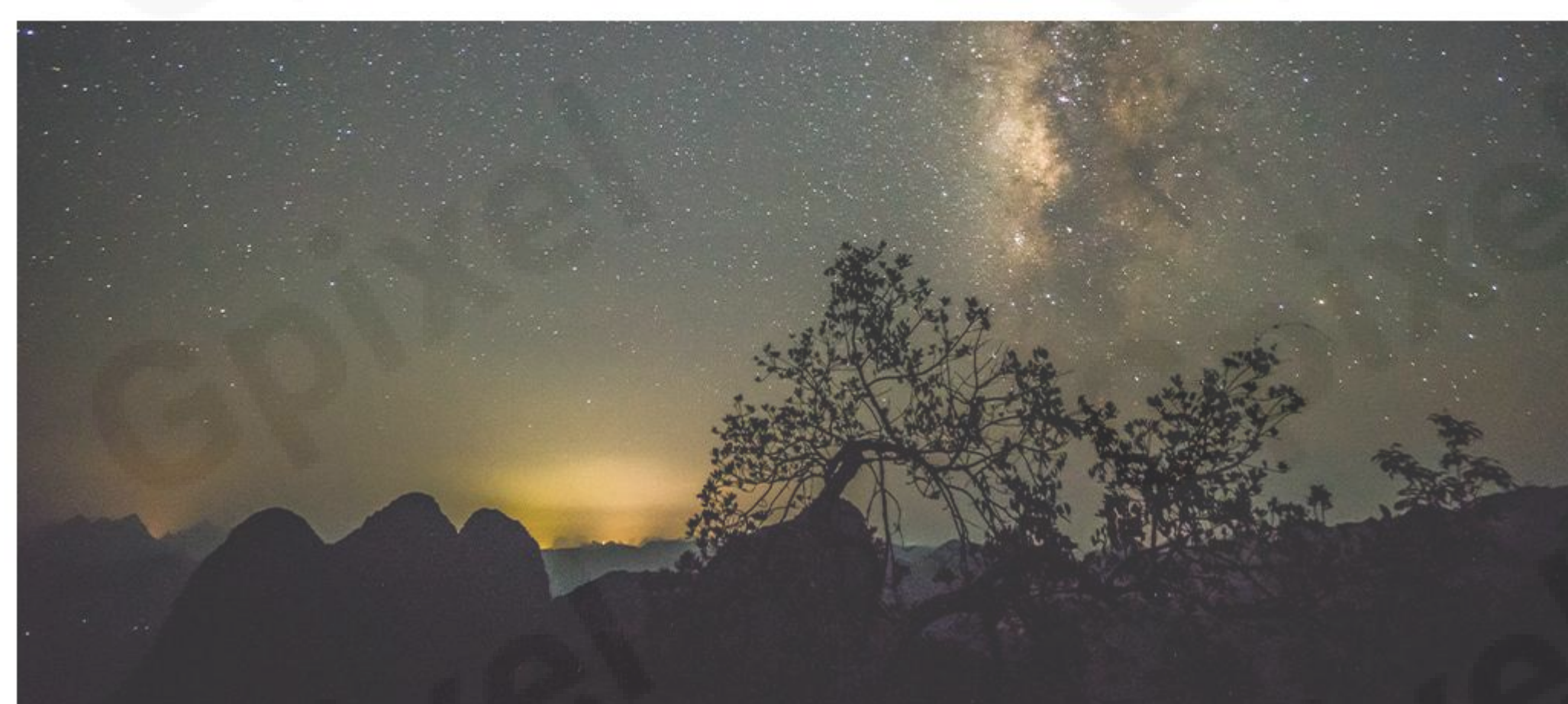
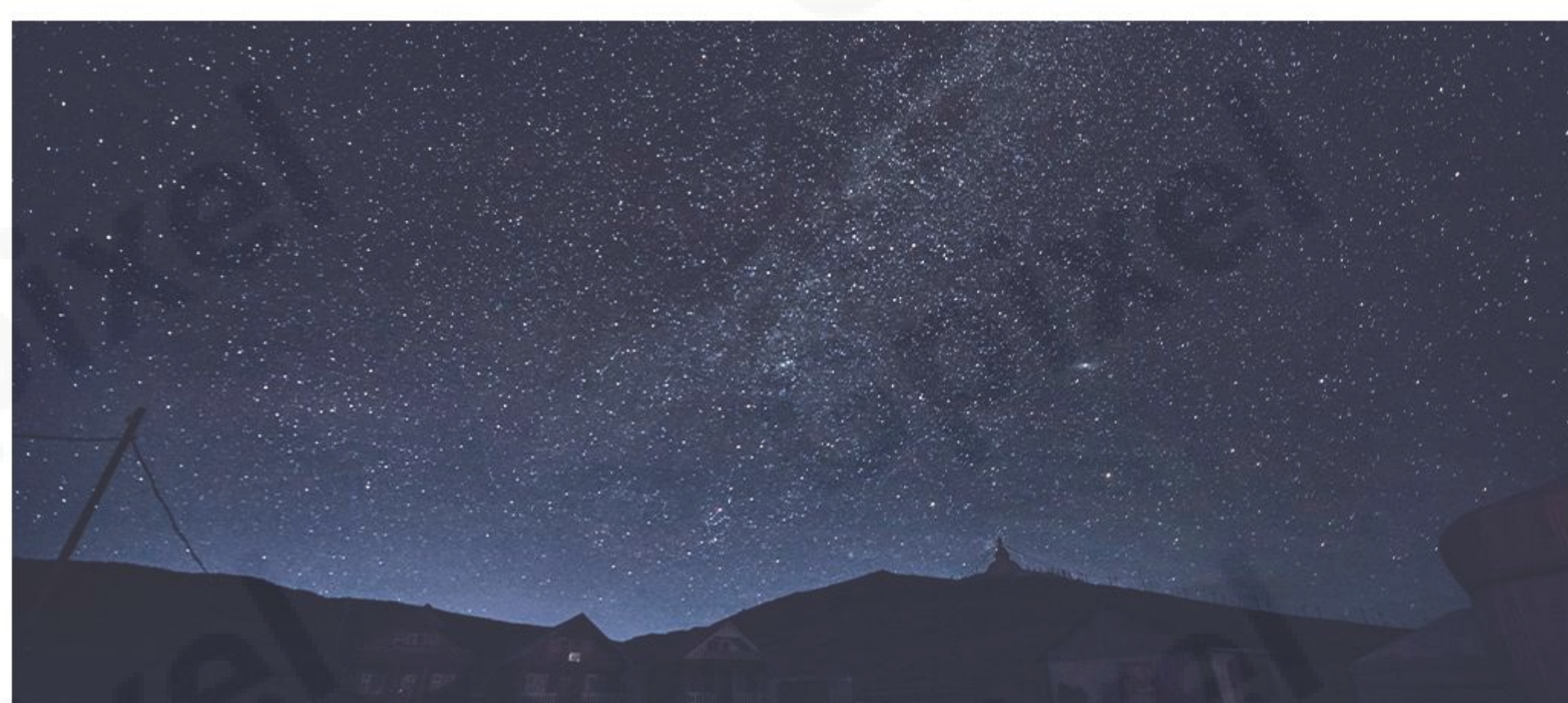


GLUX1605BSI

0.5 MP 16 μm SVGA BSI CMOS IMAGE SENSOR

GLUX1605BSI is a 0.5 Megapixel resolution BSI CMOS image sensor with 16 μm x 16 μm pixel size.

The sensor operates in electronic rolling shutter supporting two operation modes: Low Noise mode and HDR mode. User can choose which to operate in camera based on practical application's requirement on full well capacity, noise, dynamic range, etc. It integrates two types of output channels (Sub-LVDS and MIPI) and on-chip sequencer, which enables the sensor development less effort and hardware resource. **GLUX1605BSI** is pin compatible with GLUX9701BSI (1inch SXGA of GLUX image sensor family), users can operate both sensors with one set of PCB design.



Key Features and Benefits

- ▶ Operation Mode – HDR Mode & Low Noise Mode
- ▶ Optical Format: 1 inch
- ▶ On-chip 12 bit Column-Parallel ADC
- ▶ On-chip Sequencer
- ▶ On-chip PLL

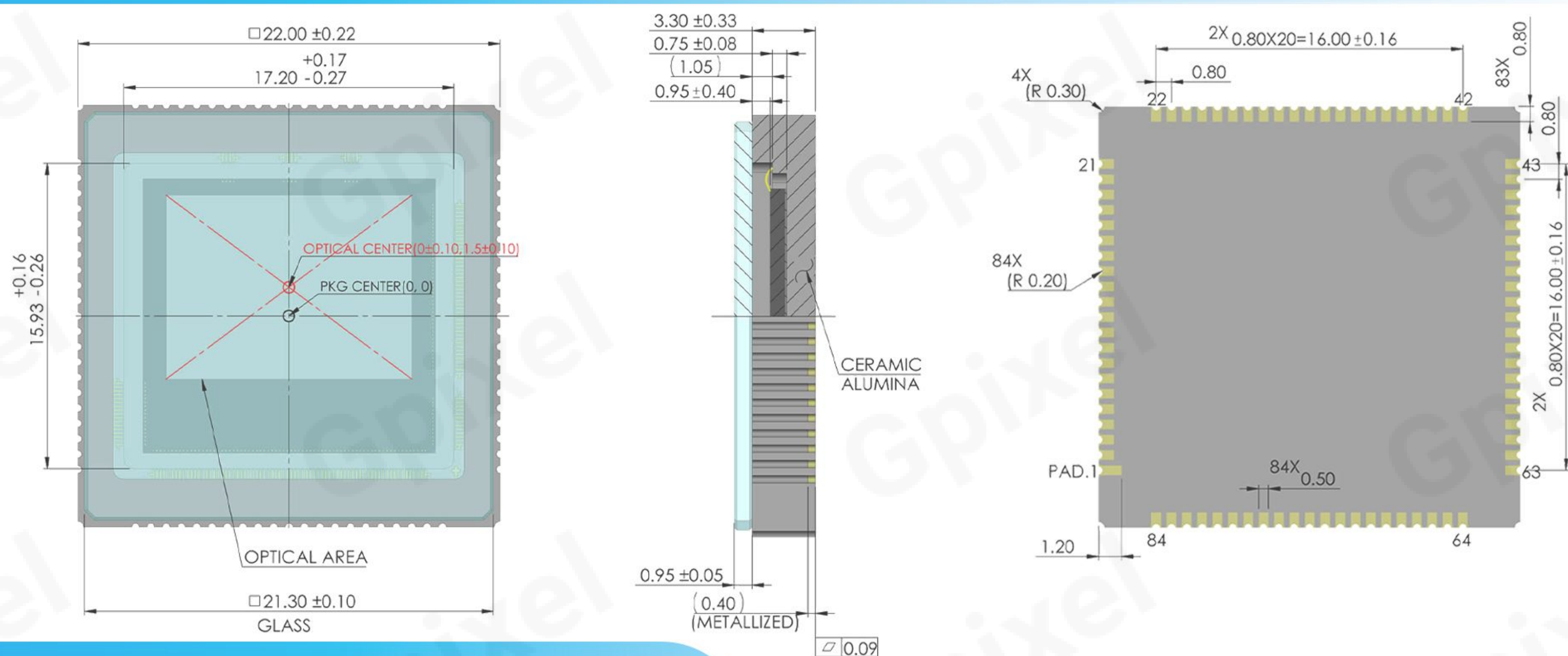
Applications

- ▶ Microluminescence Imaging

Specifications

Nr of Active Pixels	800 (H) x 600 (V)	Optical Format	1"
Pixel Size	16 μm x 16 μm	Photosensitive Area	12.8 mm x 9.6 mm
Shutter Type	Rolling Shutter	Peak QE	90.7% (550 nm)
Full Well Capacity	73.4 ke ⁻	Temporal Noise	0.9 e ⁻ (Low Noise)
Dark Current	0.22 e ⁻ /pixel/s (-33°C)	Dynamic Range	93 dB (HDR)
Max Frame Rate	60 fps	Output Format	4 ch Sub-LVDS 4 ch MIPI
Max. Data Rate	1.782 Gbps	ADC	12 bit
Chroma	Mono	Power Consumption	201 mW (HDR) 83 mW (Low Noise)
Supply Voltage	3.3 V (Analog) 1.75 V (Digital)	Package	84 pins CLCC (22.0 mm x 22.0 mm)

Package Drawing



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GP-PR250801 V1.1

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