

产品概览

STAR1000: CMOS Image Sensor, 1 MP, Radiation Tolerant

欲看完整文档,请参阅数据表。

STAR1000 is a CMOS image sensor with 1024 by 1024 pixels on a 15 µm pitch. It features on-chip Fixed Pattern Noise (FPN) correction, a programmable gain amplifier, and a 10-bit Analog-to-Digital Converter (ADC).

All circuits are designed using the radiation tolerant design techniques to allow high tolerance against total dose effects. Registers which contain the X- and Y- addresses of the read out pixels can be directly accessed by the external controller. This architecture provides for flexible operation and allows different operation modes such as (multiple) windowing, subsampling, etc.

STAR1000 is assembled using a BK7G18 glass lid with a Nitrogen-filled cavity which increases the temperature operating range. The STAR1000 flight model has additional screening to space qualified standards.

Export restrictions from the European Union require technical information concerning this device to be controlled for customers outside of the EU. The datasheet as well as any appropriate technical documents for this device are available in the (https://www.onsemi.com/PowerSolutions/myon/erCispFolder.do)Image Sensor Portal, available to customers with an NDA (and, as appropriate, an export license) in place with ON Semiconductor.

特性

- · 1 inch 35 mm optical format
- · High radiation tolerance
- · High sensitivity
- · Low noise
- · Region of Interest (ROI) readout

应用

- · Nuclear inspection
- Machine vision
- · Space science

终端产品

- · Star trackers
- · Sun sensors

器件电气规格											
产品	Compliance	Status	Туре	Megapixel s	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
NOIS1SM1000A-HHC	Pb-free Halide free	Active	CMOS	1	11	1 inch	Rolling	15 x 15	-	Mono	JLDCC-84
NOIS1SM1000S-HHC	Pb-free Halide free	Active	CMOS	1	11	1 inch	Rolling	15 x 15	-	Mono	JLDCC-84
NOIS1SM1000S-HWC	Pb-free Halide free	Active	CMOS	1	11	1 inch	Rolling	15 x 15	-	Mono	JLDCC-84

欲了解更多信息,请联系您当地的销售支援 www.onsemi.cn。

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