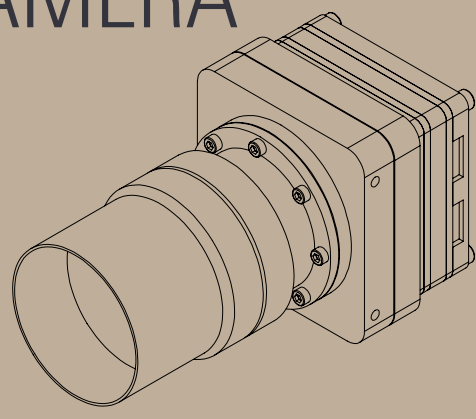
GERMAN ORBITAL SYSTEMS

Search powered by satsearch

PICOSATELLITE CAMERA



FEATURES

- C-Mount lens interface allows lens diversity
- 432 MHz ARM 9 core CPU with DSP
- Multiple data interface versions available
  - SPI, Ethernet, RS485
- Embedded Linux operating system
- PC-104 adapter plate available

HERITAGE

Our company is a spin-off from the TU Berlin. Being one of the most renowned addresses in Europe when it comes to satellite technology, the TU Berlin has successfully launched 10 satellites. Following the design philosophy and using the component base from these projects allows us to provide reliable and robust solutions for small satellites at a market transforming price.

The GOS nanosatellite Camera is optimized for CubeSats remote sensing Earth and its environment. Its diversity in potential optics allows for a lot of different use cases. A 600km Orbit Cubesat with the here shown 23mm optics can deliver a 40m/p resolution.

Functional Characteristics	
Sensor Type	CMOS
Resolution	10MP
Pixel Size	1,67µm
CPU	432MHz
Non Volatile Mem.	256 MB (NAND flash
RAM	128 MB
Voltage	5V
Input Current	0.3 A

Physical Characteristics	
Mass (Core only)	80g
Outline Dimensions	44x42x42 (HxLxW in mm)

Qualification Data	
Operating Temp.	-40°C to 80°C
Design Life Time	2yr LEO
Random Vibration	8g(6.7g Acceptance), 1000g Shock

Interfaces	
Data Ports	SPI, Ethernet, RS485
Mechanical	4 x M2.5 side holes

German Orbital Systems GmbH
Reuchlinstrasse 10
10553 Berlin, Germany

Contact:
info@orbitalsystems.de
www.orbitalsystems.de