5MP Space Camera

SPACE MICRO

FEATURES

- **Radiation Tolerant Design**
  - **30 krads EEE parts**
  - **100 krads Optional**
  - **Rad Hard Glass > 800 Mrad**
  - **SEL > 37 MeV-cm^2/mg**
- **Very Low Read Noise Based on Scientific CMOS Imager**
- **Space Heritage Lens Designs Available**
- **SpaceWire Interface**
- **Applications Include Space Situational Awareness, Earth Imaging**

5MP SPACE CAMERA SPECIFICATIONS

Active Array Size	2560 (H) x 2160 (V)
Pixel Size	6.5 µm x 6.5 µm
Chroma	RGB or Monochrome
Shutter Type	Rolling Shutter (RS), Global Shutter (GS)
Maximum Frame Rate	100 fps (RS), 50 fps (GS)
ADC Resolution	22 bits (2 x 11-bit)
Dynamic Range	> 83.5 dB
Dimensions	≤ 10.7 cm L x 8.4 cm W x 23.8 cm H with baffle
Mass	< 1 kg
Power	4W maximum
Read Noise	< 2 e- RMS (RS), <5 e- RMS (GS) Median value, high gain output (30x)
Field Of View	29°, 39°, 80° standard optical lenses Custom Field of View Available
Electrical Interfaces	
Input Voltage	5V
Data Interface	SpaceWire at 80 Mbps
Operating States and Modes	Still Image Capture, Health and Status, Code Upgrade
Mission Assurance	
Temperature Range	-20 to +55° C (Operational) -30 to +85° C (Non-operational)
Vibration	Up to 20 Grms Acceptance
Parts Level Options	Commercial Space, NASA Level I, II, III
Design Life	Up to 10 years LEO/GEO

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