Activa Netcom & Energy Systems

MXT Optical Module

Overview

The MXT is composed by an optical module based on 40 mm sized micro-channel plates, making a so-called micro-pore optics (MPO), coupled to a focal plane camera equipped with an X-ray sensitive pnCCD. 2 and 10 KeV), from the very beginning of their afterglow emission. The main goal of the MXT instrument is to precisely localize and physically characterize the early phases of the X-ray afterglows detected by the. The Microchannel X-ray Telescope is a small and compact focusing instrument that will be flown on the Sino-French mission SVOM (to be launched in 2021) dedicated to Gamma-Ray Bursts (GRBs) studies, time domain and multi-messenger astronomy. This research addresses the critical. The X-ray telescope MXT, one of the two instruments under French responsibility onboard the SVOM Chinese-French satellite payload, has just completed an important step in the project's progress, the calibration of the complete flying instrument. The launch is planned in 2021 by a LM-2C rocket. The main SVOM general objective is the survey of Gamma Ray Bursts, in coordination with ground telescopes. The other main on board instruments.

Article Content

OPTICAL MODELS OF MXT USING ZEMAX

MXT is composed by five main subsystems: an optical module based on square micro-pore optics (MPOs), a camera, a carbon fibre structure, a data processing unit and a radiator (see Fig. 1).

Design and in-orbit calibration of the MXT optics

Using specific target sources, the in-orbit calibration of the optic is here described, and compared to the extensive on-ground calibration, which was carried out at the PANTER test facility,

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Optical models of MXT using Zemax

The Microchannel X-ray Telescope (MXT) is a soft X-rays instrument on board SVOM, a Sino French mission. The launch is planned in 2021 by a LM-2C rocket. The main SVOM general objective is the

The Microchannel X-ray Telescope on board the SVOM mission: in

The main goal of the MXT instrument is to precisely localize and physically characterize the early phases of the X-ray afterglows detected by the SVOM ECLAIRs coded mask telescope

Calibration of a fully populated lobster eye optic for SVOM

The MXT''s main goal is to precisely localize, and spectrally characterize X-ray afterglows of Gamma-Ray Bursts. The MXT is a narrow-field-optimised lobster eye X-ray focusing telescope comprising an

The MXT X-ray Telescope on board the SVOM mission

It will be composed by five main subsystems, an optical module (M-OP) based on square micro-pore optics (MPOs), a camera (M-CAM), a carbon fibre structure (M-ST), a data processing unit (M-DPU),

SVOM-MXT optic and telescope testing at PANTER

The Microchannel X-ray Telescope (MXT) for the Space-based multi-band astronomical Variable Objects Monitor (SVOM), a Franco-Chinese mission (CNES/CNSA), is designed for the soft X-ray

Design and in-orbit calibration of the MXT optics

The Microchannel X-ray Telescope (MXT) represents a novel approach to space-based X-ray astronomy, serving as one of four primary instruments aboard the Space-based multi-band

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Spectral performance of the Microchannel X-ray Telescope on

The MXT is a compact and light X-ray telescope focusing photons in the 0.2-10 keV energy band. It will be able to detect and localize (within a few tens of arc seconds) the majority of GRBs, including

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MXT ready to go

It is one of the four instruments making up the payload of the SVOM (Space based multi-band astronomical Variable Object Monitor) satellite. The innovative MXT telescope will use for the

Re: how to connect optical SFP module to imx28 MCU?

Hello gentleman, does anybody know how to connect optical SFP module (125MBit) to imx287 MCU with MII MAC? i found, that standard PHY LAN8720 can''t be used for that, so looks like

MXT in the spotlight of Panter – Svom

The MXT Performance Model successfully tested at MPE Panter X-ray beam facility A campaign dedicated to the verification and validation of the performance of the

The MXT and the lobster eye – Svom

The truly innovative MXT concentrator developed to study GRBs is a system inspired by biology. Crustaceans of the order of decapods, such as the lobster and crab,

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: https://www.activa.net.pl
Email: sales@activa.net.pl
Phone: +48 662 748 193
Address: ul. Cybernetyki 7B, 02-677 Warsaw, Poland

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