Conceptual Electronics Design of Far-Ultraviolet Imaging Spectrograph on KAISTSAT-4

U. W. Nam[1], H. Chun[2], H. Jin[1], K. W. Min[2], J. Edelstein[3], W. Han[1], J.-S. Lee[1], E. Korpela[3]

[1] Korea Astronomy Observatory, Tae-jon, Rep. of Korea.

[2] Satellite Technology Research Center, KAIST, Tae-jon, Rep. of Korea.

[3] Space Science Laboratory, University of California, Berkeley, USA.

Far-Ultraviolet Imaging Spectrograph (FIMS) system which comprises a microchannel plate detector and its associated position readout subsystem is designed to be capable of both imaging and spectrograph for FUV. FIMS electronics unit houses circuits for experimental power, control and communication, and includes the following circuit subassemblies: FIMS digital electronics boards, spacecraft interface boards, an ADC board, a housekeeping board, a high voltage controller board, a motor controller board and a mother board. We discuss the conceptual design of FIMS electronics that have been studied.