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Open source hardware and software PocketQube family of satellite modules

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Libre Space Foundation is designing an open-source hardware and software family of PocketQube format satellite modules. We are focusing on the main module including typical OBC and COMMS functionality delivered using modern and high capable MCUs (STM32) and reconfigurable COMMS ICs (AX5043). Data logging and power management functions are also present. We are following the mechanical specifications of the proposed PQ9 standard while adapting the electrical and application layers to meet modularity and compatibility needs. Several design aspects will be addressed including subsystem and software design for reusability and alternative inter-subsystem communication methods to the proposed RS485 communication of the PQ9 standard.

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