Perancangan hardware dan software on-board data handling UI-SAT dengan prosesor LPC1768 ARM Cortex M-3 = Design of hardware and software onboard data handling UISAT-based with LPC1768 Arm Cortex M-3

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Abstrak

Telekomunikasi pada abad ke-21 di dunia sudah sangat penting untuk komunikasi antarorang ataupun antara gadget. Salah satu teknologi tersebut adalah satelit. Salah satu komponen penting pada nanosatelit adalah OBDH/ On-Board Data Handling berfungsi sebagai media yang berfungsi untuk fungsi perintah dan pengolahan data. Namun, diperlukan adanya TTC (Telemtery, Tracking, and Command)yang berguna untuk menghubungkan antara ground station dengan nanosatelit. Adapun, pada penelitian kali ini, penelitian ini akan memfokuskan pada perancangan Hardware dan Software On-Board Data Handling dan hubungannya dengan TTC khususnya TNC(Terminal Node Controller).

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<i>Telecommunications in the 21st century the world has been very important for communication between individuals or between gadgets. One such technology is the satellite. One important component is the nanosatelit OBDH / On-Board Data Handling serves as a medium that serves for the command and data processing functions. However, it is necessary to TTC (Telemtery, Tracking, and Command) is useful for connecting between the ground station with nanosatelit. Meanwhile, in the present study, the research will focus on designing hardware and software On-Board Data Handling and its relationship with the TTC, especially TNC (Terminal Node Controller).</i>