

SOM (SYSTEM ON MODULE) BASED COUNT DOWN TIME DISTRIBUTION AND RECEPTION UNIT

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ABSTRACT

This paper describes the need and function of “SOM based time transmission system through Ethernet and SOM based Time Code Reader”. In Flight Test Center (FTC) single Time platform is very much needed to carry out the activities in organized way and synchronization is required among the tracking instruments deployed. Previously Time codes were transmitted to various sites through serial communication and received by TCR (Time Code Reader). As the number of tracking sites at FTC are increasing day by day, it becomes cost in-effective as well as complex to distribute Time to remote sites serially. To avoid this limitation, the current SOM based low cost Time distribution system was conceptualized, developed and implemented. The serial output of previous system is fed to SOM based system, where it is processed and outputted in Ethernet port, which makes it easier to distribute time to the remote sites.

KEYWORDS: Serial Communication, Ethernet Communication, SOM Based System