

Providing Complete Precision Timing Solution for Hospitals by GPS Time Synchronized with MCS

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Abstract:

The time is very important in the life and has a special significance for hospitals, Where is specially used in operating rooms, Nurse Call System (NCS) , various medical tests and many other medical services. Those important things are mainly to use Master Clock System (MCS) in the hospitals. In this paper we provided high precision time for hospitals by used Global Positioning System (GPS) time synchronized with MCS. The time will get synchronized from satellite via GPS according to the Time Zone. GPS receivers can provide precise time, speed, and course measurements. Westerstrand GPS unit uses a miniature 12-channel GPS will use in the system and its compact size and low power consumption make it ideal for this application. The system consists of Master clock control unit, GPS receiver with antenna and related accessories.