



Microchip  
 4775 Walnut Street, Suite 1B  
 Boulder, CO 80301

November 6, 2023

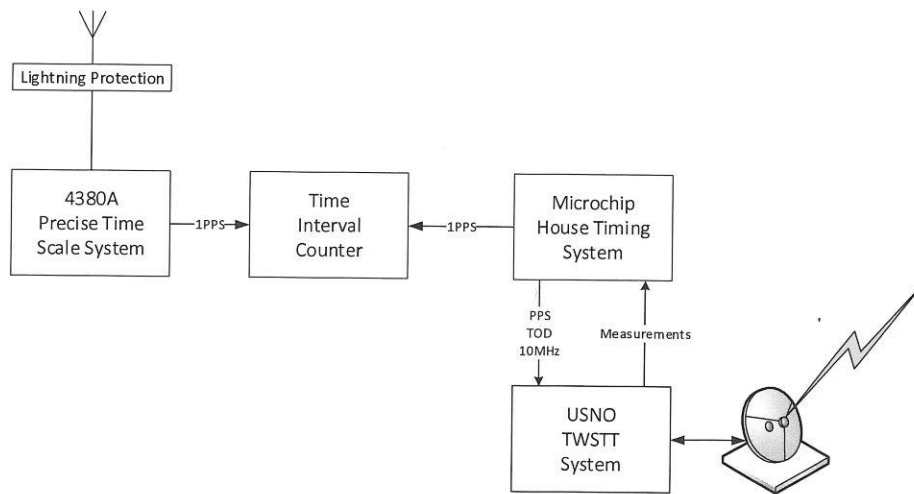
Bureau of Standards, Jamaica  
 6 Winchester Road, Kingston 10, Jamaica

SUBJECT: Time Scale - Certificate of Calibration

Dear Mr. Terrence Jones,

Microchip certifies that the Precise Time Scale System (PTSS) meets or exceeds its published specification at the time of its manufacture. The system synchronization to Coordinated Universal Time (UTC) is traceable to the United States Naval Observatory (USNO) via a USNO calibrated Two-Way Satellite Time Transfer (TWSTT) link.

The system was calibrated on the factory floor at Microchip using the same cables, GNSS antenna and GNSS receiver that were used for the system installation. The results for the system calibration are outlined below. The block diagram shows the configuration used for the calibration.



System Calibration Test Configuration

Part Number	4380A-TS
Serial Number	V07987
Calibration value	9.97nS

Sincerely,

*Christopher Anderson*

Christopher Anderson  
 Principal Systems Engineer  
 Frequency and Time Systems Business Unit