

BIPM GTR50 (BP0U) Receiver Setup 1 Information Sheet

[1] The hardware connection and cable delays are shown in Figure 1. In this setup, the antenna cable of BIPM system is not used. This setup 1 is from MJD 55273 to 55284.

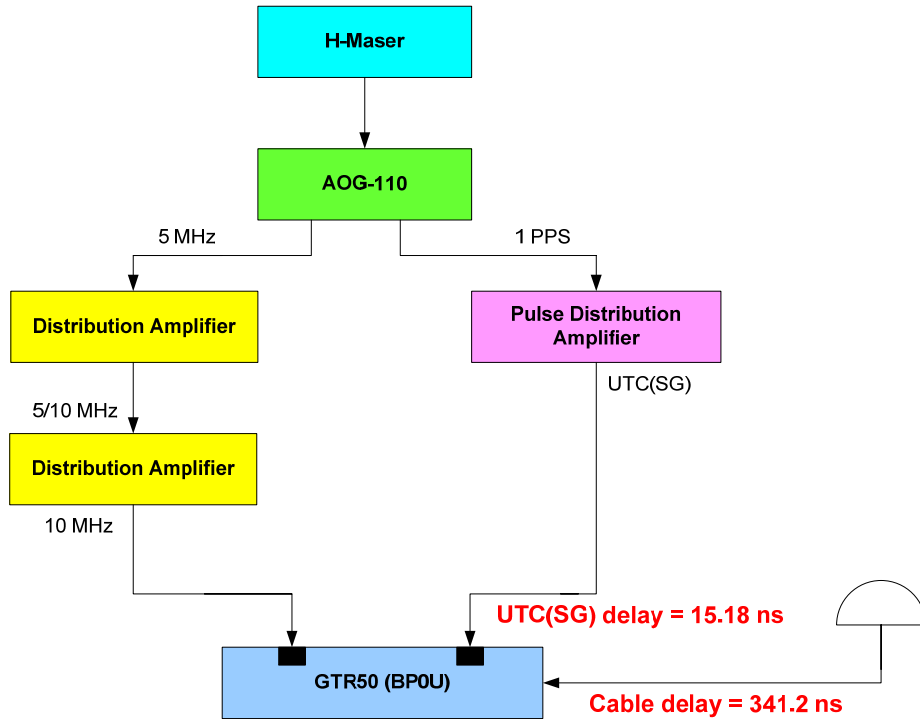


Figure 1. Measurement setup of GTR50 receiver.

[2] The antenna coordinates is given in Table 1.

Table 1. Coordinates of GTR50 antenna.

X	Y	Z
-1519458.93	6192913.77	142851.49

PolaRx2e #1 Receiver (S/N: 3364) Information Sheet

PolaRx2e #1 is the receiver for TAI link between BIPM and SG.

[3] The hardware connection and cable delays are shown in Figure 2.

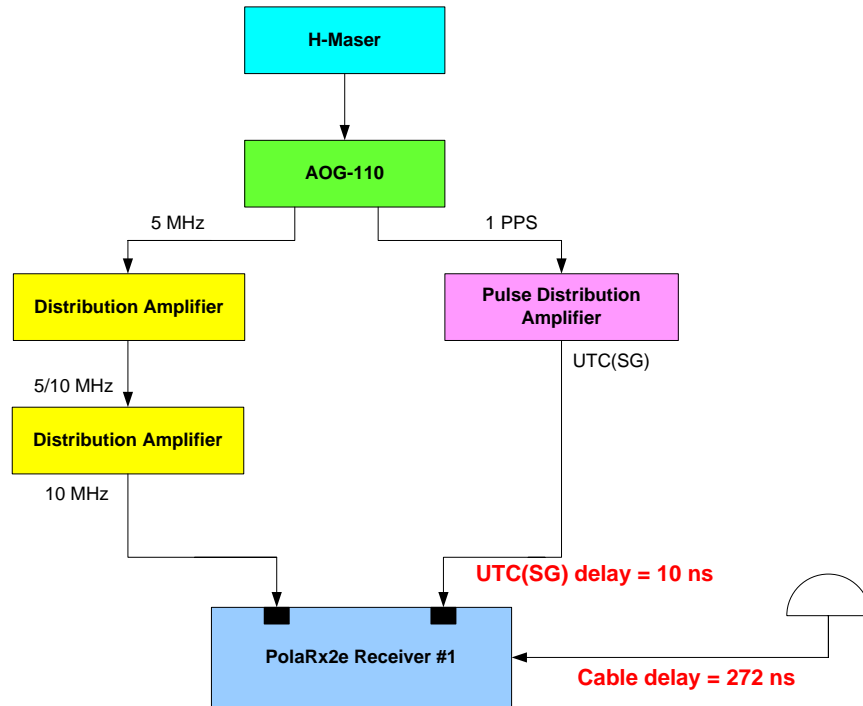


Figure 2. Measurement setup of PolaRx2e #1 receiver.

[4] The delay measurement between the 1PPS input connector and output connector of the receiver is measured with results in Table 2.

Table 2. Receiver delay measurement results

	Before starting the operation (ns)	After ending the operation (ns)
Setup of Figure 1	10.17	10.19
Setup of Figure 2	231.05	230.97
Delay value(ns)	220.88	220.78

[5] The antenna coordinates is given in Table 3.

Table 3. Coordinates of PolaRx2e #1 antenna.

X	Y	Z
-1519458.93	6192913.77	142851.49

PolaRx2e #2 Receiver (S/N: 3613) Information Sheet

PolaRx2e #2 is a backup receiver of PolaRx2e #1.

[6] The hardware connection and cable delays are shown in Figure 3.

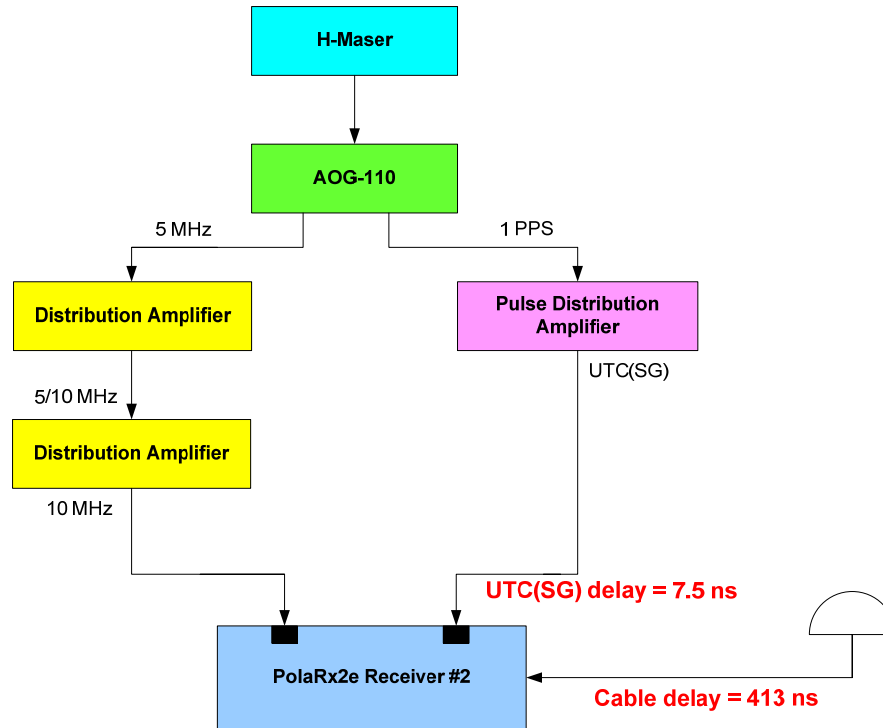


Figure 3. Measurement setup of PolaRx2e #2 receiver.

[7] The delay measurement between the 1PPS input connector and output connector of the receiver is measured with results in Table 4.

Table 4. Receiver delay measurement results

	Before starting the operation (ns)	After ending the operation (ns)
Setup of Figure 1	7.54	7.55
Setup of Figure 2	229.24	229.06
Delay value(ns)	221.70	221.51

[8] The antenna coordinates is given in Table 5.

Table 5. Coordinates of PolaRx2e #2 antenna.

X	Y	Z
-1519472.98	6192911.09	142837.28

BIPM GTR50 (BP0U) Receiver Setup 2 Information Sheet

[9] This is the Setup 2 of BP0U GTR50 receiver. In this setup, the antenna cable C134 of BIPM system is used. This setup 2 is from MJD 55285 to 55290.

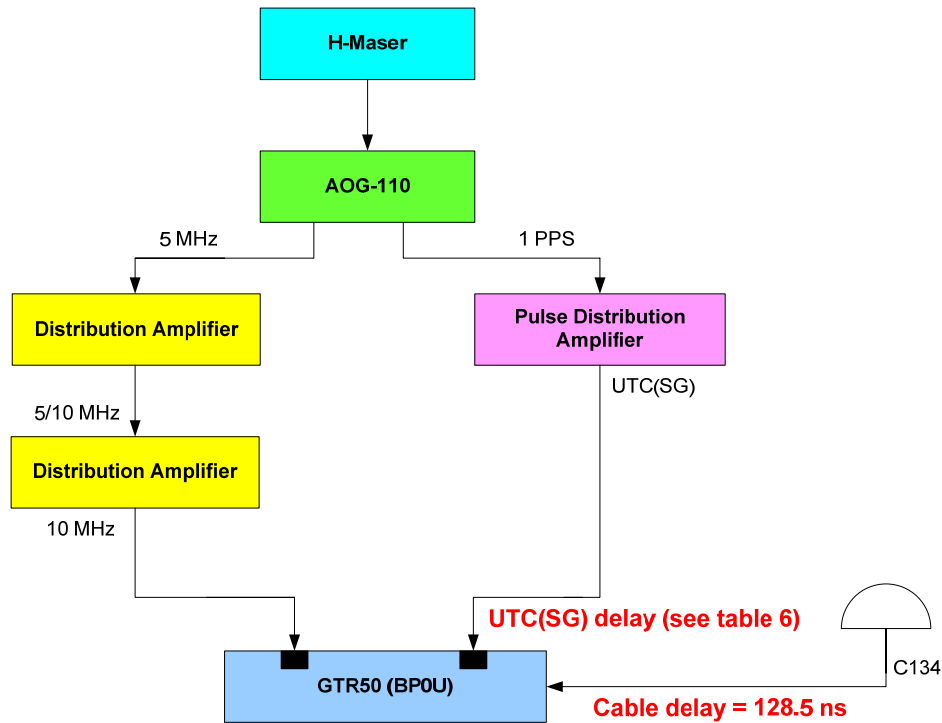


Figure 4. Measurement Setup 2 of GTR50 receiver since UTC= 4 h, MJD=55285.

Table 6. Reference Delay UTC(SG) Information for Setup 2.

Period	UTC(SG) Ref Delay (ns)	Remarks
from UTC= 4 h MJD=55285 to UTC = 3.5 h MJD=55286	675.0	Slightly different cables are used before and after UTC=3.5h of MJD=55286 respectively.
From UTC = 3.5 h MJD=55286 onward	673.4	

[10] The coordinates of antenna Novatel GPS-702-GG is the same as in Setup 1 and given in below Table 7.

Table 7. Coordinates of GTR50 antenna.

X	Y	Z
-1519458.93	6192913.77	142851.49