

After a calibration procedure is finished, the pertinent data is returned over the 1394 as a turn-by-turn (TBT) data structure. This structure is comprised of 4 arrays, each having 1024 elements. They are called tbtOrbPositionM, tbtOrbStatM, tbtOrbACorrM, tbtOrbBCorrM.

The Position and Stat buffers report similar information. The data is two groups of calibration coefficients generated during the current calibration. These coefficients are preceded by several status bytes in the 0, 1, and 2 elements. The following is a description of the contents of those two buffers.

Element #	tbtOrbPositionM	tbtOrbStatM
0	trigger source	calibration error byte
1	x1 pulser attenuation	x10 pulser attenuation
2	FLASH write confirm	FLASH write confirm
3	x1 particular coef 0	x10 particular coef 0
4	x1 particular coef 1	x10 particular coef 1
5	x1 particular coef 2	x10 particular coef 2
6	x1 particular coef 3	x10 particular coef 3
7	x1 particular coef 4	x10 particular coef 4
8	x1 particular coef 5	x10 particular coef 5
9	x1 particular coef 6	x10 particular coef 6
10	x1 particular coef 7	x10 particular coef 7
11	x1 particular coef 8	x10 particular coef 8
12	x1 particular coef 9	x10 particular coef 9
13	x1 particular coef 10	x10 particular coef 10
14	x1 particular coef 11	x10 particular coef 11
15	x1 particular coef 12	x10 particular coef 12
16	x1 particular coef 13	x10 particular coef 13
17	x1 particular coef 14	x10 particular coef 14
18	x1 particular coef 15	x10 particular coef 15
19	x1 operational coef 0	x10 operational coef 0
20	x1 operational coef 1	x10 operational coef 1
21	x1 operational coef 2	x10 operational coef 2
22	x1 operational coef 3	x10 operational coef 3
23	x1 operational coef 4	x10 operational coef 4
24	x1 operational coef 5	x10 operational coef 5
25	x1 operational coef 6	x10 operational coef 6
26	x1 operational coef 7	x10 operational coef 7
27	x1 operational coef 8	x10 operational coef 8
28	x1 operational coef 9	x10 operational coef 9
29	x1 operational coef 10	x10 operational coef 10
30	x1 operational coef 11	x10 operational coef 11
31	x1 operational coef 12	x10 operational coef 12
32	x1 operational coef 13	x10 operational coef 13
33	x1 operational coef 14	x10 operational coef 14
34	x1 operational coef 15	x10 operational coef 15
35	.	.
.	zero	.
.	.	.
1023	.	.

The ACorr and BCorr buffers also report similar information. The data is of a graphical nature, being the "cal curves" generated during the current calibration. The following is a description of the contents of those two buffers.

Element #	tbtOrbACorrM	tbtOrbBCorrM
0	.	.
.	.	.
.	x1 raw curve Ch. A	x1 raw curve Ch. B
.	.	.
127	.	.
128	.	.
.	.	.
.	x1 corr curve Ch. A	x1 corr curve Ch. B
.	.	.
255	.	.
256	.	.
.	.	.
.	x10 raw curve Ch A	x10 raw curve Ch B
.	.	.
383	.	.
384	.	.
.	.	.
.	x10 corr curve Ch A	x10 corr curve Ch B
.	.	.

511

512

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remaining data from last acquired TBT buffer

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