The University of Alabama in Huntsville Space Hardware Club

HELEN Data Report

Icon

Description automatically generated

# General Information

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Stat | Payload\_1 | Payload\_2 | Payload\_3 | Payload\_4 |
| 'TIME\_GPS\_ON\_SERIAL' | "NaN" | "738591.7045" | "738591.7079" | "NaN" |
| 'TIME\_GPS\_OFF\_SERIAL' | "NaN" | "738591.7187" | "738591.7187" | "NaN" |
| 'TIME\_DURATION\_GPS' | "NaN" | "0.3400" | "0.2600" | "NaN" |
| 'PACKETNUMBER\_FIRST' | "NaN" | "0.0000" | "0.0000" | "NaN" |
| 'PACKETNUMBER\_LAST' | "NaN" | "5695.0000" | "5695.0000" | "NaN" |
| 'NUMBEROFPACKETS\_EXPECTED' | "NaN" | "5696.0000" | "5696.0000" | "NaN" |
| 'NUMBEROFPACKETS\_ACTUAL' | "1.0000" | "5695.0000" | "5696.0000" | "1.0000" |
| 'PACKETNUMBER\_GPSON' | "NaN" | "4467.0000" | "4754.0000" | "NaN" |
| 'PACKETNUMBER\_GPSOFF' | "NaN" | "5694.0000" | "5694.0000" | "NaN" |
| 'NUMBEROFPACKETS\_GPS\_DURATION' | "NaN" | "1227.0000" | "940.0000" | "NaN" |
| 'NUMBEROFPACKETS\_PERSECOND' | "NaN" | "1.0025" | "1.0043" | "NaN" |
| 'TIME\_ON\_SERIAL' | "NaN" | "738591.6530" | "738591.6531" | "NaN" |
| 'TIME\_OFF\_SERIAL' | "NaN" | "738591.7187" | "738591.7187" | "NaN" |
| 'TIME\_DURATION' | "NaN" | "1.5790" | "1.5760" | "NaN" |
| 'TEMP\_MAX' | "NaN" | "36.5900" | "37.9200" | "NaN" |
| 'TEMP\_MIN' | "NaN" | "18.0700" | "19.3200" | "NaN" |
| 'TEMP\_MEAN' | "NaN" | "31.3400" | "32.4840" | "NaN" |
| 'LATITUDE\_START' | "0.0000" | "35.9569" | "35.9570" | "0.0000" |
| 'LONGITUDE\_START' | "0.0000" | "-83.9236" | "-83.9239" | "0.0000" |
| 'LATITUDE\_END' | "0.0000" | "35.9569" | "35.9571" | "0.0000" |
| 'LONGITUDE\_END' | "0.0000" | "-83.9237" | "-83.9238" | "0.0000" |
| 'DISTANCE' | "0.0000" | "0.0130" | "0.0220" | "0.0000" |
| 'ACCELERATION\_MAX\_X' | "NaN" | "14.7100" | "11.0130" | "NaN" |
| 'ACCELERATION\_MAX\_Y' | "NaN" | "11.2580" | "15.1810" | "NaN" |
| 'ACCELERATION\_MAX\_Z' | "NaN" | "17.7890" | "16.3380" | "NaN" |
| 'COUNTS\_TOTAL' | "1.0000" | "204800.0000" | "6754304.0000" | "1.0000" |
| 'TIME\_FPGACOUNTER\_RESETS' | "0.0000" | "4536.0000" | "5682.0000" | "0.0000" |
| 'TIME\_DURATION\_FPGA' | "0.0000" | "1.2600" | "1.5783" | "0.0000" |
| 'COUNTS\_PERSECOND\_MEAN' | "Inf" | "45.1500" | "1188.7200" | "Inf" |
| 'COUNTS\_PERSECOND\_MAX' | "0.0000" | "269.0000" | "1569.0000" | "Inf" |
| 'COUNTS\_TOTAL\_1500' | "0.0000" | "204789.0000" | "6754072.0000" | "Inf" |
| 'COUNTS\_PERSECOND\_MEAN\_1500' | "0.0000" | "162530.9520" | "4279243.9870" | "Inf" |
| 'COUNTS\_PERSECOND\_MAX\_1500' | "0.0000" | "0.0000" | "1.0000" | "Inf" |
| 'TICKS\_RESET\_MEAN' | "0.0000" | "5989291.7730" | "66334.5900" | "Inf" |
| 'TICKS\_COUNTS\_MEAN' | "0.0000" | "1107419.7120" | "42062.0500" | "Inf" |
| 'DEADTIME\_MEAN\_US' | "0.0000" | "97637.4410" | "485.4510" | "Inf" |
| 'DEADTIME\_MEAN\_PERCENT' | "0.0000" | "0.0976" | "0.0005" | "Inf" |

# Graphs

































