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' | "738363.7906" | "NaN" | "738363.7832" | "738363.7963" |
| 'TIME\_GPS\_OFF\_SERIAL' | "738364.0699" | "NaN" | "738364.0005" | "738364.0534" |
| 'TIME\_DURATION\_GPS' | "6.7000" | "NaN" | "5.2200" | "6.1700" |
| 'PACKETNUMBER\_FIRST' | "0.0000" | "NaN" | "0.0000" | "0.0000" |
| 'PACKETNUMBER\_LAST' | "24604.0000" | "NaN" | "18936.0000" | "23513.0000" |
| 'NUMBEROFPACKETS\_EXPECTED' | "24605.0000" | "NaN" | "18937.0000" | "23514.0000" |
| 'NUMBEROFPACKETS\_ACTUAL' | "24604.0000" | "1.0000" | "18937.0000" | "23514.0000" |
| 'PACKETNUMBER\_GPSON' | "478.0000" | "NaN" | "161.0000" | "1292.0000" |
| 'PACKETNUMBER\_GPSOFF' | "24603.0000" | "NaN" | "18935.0000" | "23512.0000" |
| 'NUMBEROFPACKETS\_GPS\_DURATION' | "24125.0000" | "NaN" | "18774.0000" | "22220.0000" |
| 'NUMBEROFPACKETS\_PERSECOND' | "1.0002" | "NaN" | "0.9990" | "1.0004" |
| 'TIME\_ON\_SERIAL' | "738363.7851" | "NaN" | "738363.7813" | "738363.7813" |
| 'TIME\_OFF\_SERIAL' | "738364.0699" | "NaN" | "738364.0005" | "738364.0534" |
| 'TIME\_DURATION' | "6.8340" | "NaN" | "5.2600" | "6.5310" |
| 'TEMP\_MAX' | "45.9500" | "NaN" | "56.2500" | "54.7800" |
| 'TEMP\_MIN' | "-11.0000" | "NaN" | "3.8800" | "4.1400" |
| 'TEMP\_MEAN' | "11.6940" | "NaN" | "28.1960" | "21.9320" |
| 'LATITUDE\_START' | "34.7247" | "0.0000" | "34.7250" | "34.7250" |
| 'LONGITUDE\_START' | "-86.6464" | "0.0000" | "-86.6462" | "-86.6462" |
| 'LATITUDE\_END' | "34.8151" | "0.0000" | "34.6984" | "34.6646" |
| 'LONGITUDE\_END' | "-89.9815" | "0.0000" | "-87.5979" | "-89.2661" |
| 'DISTANCE' | "304.7760" | "0.0000" | "87.0380" | "239.6140" |
| 'ACCELERATION\_MAX\_X' | "11.0910" | "NaN" | "10.9340" | "14.6610" |
| 'ACCELERATION\_MAX\_Y' | "1.3340" | "NaN" | "2.8830" | "1.6480" |
| 'ACCELERATION\_MAX\_Z' | "16.3080" | "NaN" | "14.5240" | "22.4670" |
| 'COUNTS\_TOTAL' | "29851647.0000" | "1.0000" | "20025344.0000" | "27922432.0000" |
| 'TIME\_FPGACOUNTER\_RESETS' | "24626.0000" | "0.0000" | "42541.0000" | "23507.0000" |
| 'TIME\_DURATION\_FPGA' | "6.8406" | "0.0000" | "11.8169" | "6.5297" |
| 'COUNTS\_PERSECOND\_MEAN' | "1212.2000" | "Inf" | "470.7300" | "1187.8350" |
| 'COUNTS\_PERSECOND\_MAX' | "21945.0000" | "0.0000" | "9339.0000" | "1365.0000" |
| 'COUNTS\_TOTAL\_1500' | "29850700.0000" | "0.0000" | "20024741.0000" | "27921587.0000" |
| 'COUNTS\_PERSECOND\_MEAN\_1500' | "4363782.7100" | "0.0000" | "1694578.6490" | "4276075.9190" |
| 'COUNTS\_PERSECOND\_MAX\_1500' | "13.0000" | "0.0000" | "221.0000" | "14.0000" |
| 'TICKS\_RESET\_MEAN' | "48564.8800" | "0.0000" | "15323658.2150" | "53220.5960" |
| 'TICKS\_COUNTS\_MEAN' | "41247.3190" | "0.0000" | "106218.0020" | "42093.3880" |
| 'DEADTIME\_MEAN\_US' | "146.3510" | "0.0000" | "304348.8040" | "222.5440" |
| 'DEADTIME\_MEAN\_PERCENT' | "0.0001" | "0.0000" | "0.3043" | "0.0002" |

# Graphs

















