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" | "NaN" | "NaN" | "NaN" |
| 'TIME\_GPS\_OFF\_SERIAL' | "NaN" | "NaN" | "NaN" | "NaN" |
| 'TIME\_DURATION\_GPS' | "NaN" | "NaN" | "NaN" | "NaN" |
| 'PACKETNUMBER\_FIRST' | "0.0000" | "0.0000" | "0.0000" | "0.0000" |
| 'PACKETNUMBER\_LAST' | "900.0000" | "895.0000" | "894.0000" | "896.0000" |
| 'NUMBEROFPACKETS\_EXPECTED' | "901.0000" | "896.0000" | "895.0000" | "897.0000" |
| 'NUMBEROFPACKETS\_ACTUAL' | "901.0000" | "894.0000" | "895.0000" | "897.0000" |
| 'PACKETNUMBER\_GPSON' | "NaN" | "NaN" | "NaN" | "NaN" |
| 'PACKETNUMBER\_GPSOFF' | "NaN" | "NaN" | "NaN" | "NaN" |
| 'NUMBEROFPACKETS\_GPS\_DURATION' | "NaN" | "NaN" | "NaN" | "NaN" |
| 'NUMBEROFPACKETS\_PERSECOND' | "NaN" | "NaN" | "NaN" | "NaN" |
| 'TIME\_ON\_SERIAL' | "NaN" | "NaN" | "NaN" | "NaN" |
| 'TIME\_OFF\_SERIAL' | "NaN" | "NaN" | "NaN" | "NaN" |
| 'TIME\_DURATION' | "NaN" | "NaN" | "NaN" | "NaN" |
| 'TEMP\_MAX' | "25.4200" | "25.6400" | "27.3400" | "26.6400" |
| 'TEMP\_MIN' | "22.2900" | "22.3200" | "24.3200" | "23.1200" |
| 'TEMP\_MEAN' | "24.9790" | "25.1110" | "26.7750" | "26.0990" |
| 'LATITUDE\_START' | "0.0000" | "0.0000" | "0.0000" | "0.0000" |
| 'LONGITUDE\_START' | "0.0000" | "0.0000" | "0.0000" | "0.0000" |
| 'LATITUDE\_END' | "0.0000" | "0.0000" | "0.0000" | "0.0000" |
| 'LONGITUDE\_END' | "0.0000" | "0.0000" | "0.0000" | "0.0000" |
| 'DISTANCE' | "0.0000" | "0.0000" | "0.0000" | "0.0000" |
| 'ACCELERATION\_MAX\_X' | "0.2450" | "0.5790" | "0.5100" | "-0.2650" |
| 'ACCELERATION\_MAX\_Y' | "0.4020" | "0.9120" | "0.0290" | "0.1770" |
| 'ACCELERATION\_MAX\_Z' | "9.7090" | "9.8070" | "9.9730" | "10.0220" |
| 'COUNTS\_TOTAL' | "2781211.0000" | "602112.0000" | "2895899.0000" | "2801691.0000" |
| 'TIME\_FPGACOUNTER\_RESETS' | "888.0000" | "878.0000" | "881.0000" | "895.0000" |
| 'TIME\_DURATION\_FPGA' | "0.2467" | "0.2439" | "0.2447" | "0.2486" |
| 'COUNTS\_PERSECOND\_MEAN' | "3131.9900" | "685.7760" | "3287.0620" | "3130.3820" |
| 'COUNTS\_PERSECOND\_MAX' | "3341.0000" | "789.0000" | "3525.0000" | "3378.0000" |
| 'COUNTS\_TOTAL\_1500' | "2781140.0000" | "602097.0000" | "2895816.0000" | "2801607.0000" |
| 'COUNTS\_PERSECOND\_MEAN\_1500' | "11274876.6560" | "2468733.7270" | "11833084.0710" | "11269038.7790" |
| 'COUNTS\_PERSECOND\_MAX\_1500' | "0.0000" | "0.0000" | "0.0000" | "1.0000" |
| 'TICKS\_RESET\_MEAN' | "117017.7970" | "72839.5230" | "67408.5940" | "314611.4840" |
| 'TICKS\_COUNTS\_MEAN' | "15964.2910" | "72910.1050" | "15211.1520" | "15972.4920" |
| 'DEADTIME\_MEAN\_US' | "2021.0700" | "-1.4120" | "1043.9490" | "5972.7800" |
| 'DEADTIME\_MEAN\_PERCENT' | "0.0020" | "-0.0000" | "0.0010" | "0.0060" |

# Graphs

































