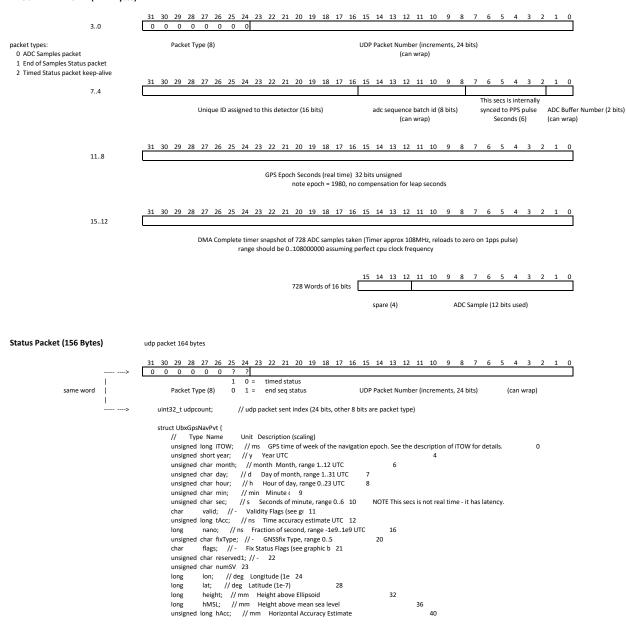
ADC SAMPLE PACKET (1472 Bytes)



```
unsigned long vAcc; // mm Vertical Accuracy Estimate
                                                   velN; // mm/s NED north velocity
                                                                                                   48
                                                    velE; // mm/s NED east velocity
                                                                                                      52
                                           long
                                                    velD; // mm/s NED down velocity
                                                                                                       56
                                                   gSpeed; // mm/s Ground Speed (2-D)
                                                                                                  60
                                          long
                                                    heading; // deg Heading of motion 2-D (1 64
                                          unsigned long sAcc; // mm/s Speed Accuracy Estimate 68
                                           unsigned long headingAcc; // deg Heading Accur 72
                                           unsigned short pDOP; // - Position DOP (0.01)
                                           short reserved2; // - Reserved
                                                                                                              78
                                          unsigned long reserved3; // - Reserved
                                                                                                              80
                                          } NavPvt;
                                       31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
                   clktrim
                                       average of STM32 clock frequency referenced to 1pps
                                                                                                       15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
                                       uint16_t uid;
                                                              // 16 bits used
                                                                                                          Unique ID assigned to this detector (16)
                                                                                                       15 14 13 12 11 10 9 8 7 6 5 4 3 2
                                                              // 16 bits used
                                       uint16_t adcpktssent;
                                                                                                  ADC number of buffers sent in last capture sequence before status packet (16)
                                                                                                         // Number of ADC pks sent in this trigger event
                                                                                                   16 15 14 13 12 11 10 9 8 7 6 5 4 3 2
                                                           adctrigoff : uint16_t;
                                                                                                                         adc trigger offset (above the noise)
                                                                                                   16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
                                                           adcbase : uint16 t;
                                                                                                                         adc average base level (ie dc level)
                                                              uint32 t sysuptime;
                                                                                      // number of seconds system up from boot uptime
                                                              uint32_t netuptime;
                                                                                      // number of seconds network up
                                                              uint32_t gpsuptime;
                                                                                      // number of seconds gps locked
                                                                                      // STM firmware major ver
                                                              uint8_t majorversion;
                                                              uint8 t minorversion;
                                                                                      // STM firmware minor ver
                                                              uint16_t adcnoise;
                                                                                      // adc average peak noise
                                    31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9
uint32_t auxstatus1; AUXSTATUS1
                                                  16 bits reserved
                                                                                                     detection jabber (8 bits)
                                                                                                                                     adc sequence last batch id (8 bits)
                                                                                                         0 = no jabber
                                                                                                                                         (can wrap)
                                                              uint32_t adcudpover;
                                                                                          // adc -> udp send overruns
                                                                                          // adc trigger count
                                                              uint32_t trigcount;
                                                              uint32_t udpsent;
                                                                                         // udp sample packets sent
                                                                                          // peak trig level
                                                              uint16_t peaklevel;
                                                                                         // jabber counter
                                                              uint16_t jabcnt;
                                                              uint32_t noisevar;
                                                                                         // noise variance
                                                              uint32_t reserved1;
                                                                                      // spare
                                                              uint32_t reserved2;
                                                                                      // spare
                                                              uint32_t reserved3;
                                                                                      // spare
                                       Any new fields to be added here ......
                                                                                                                             0xFEEDCODE
       end sentinal marker (keep at the end)
                                                              uint32_t telltale1;
                                                                                      // end of status packet marker
```