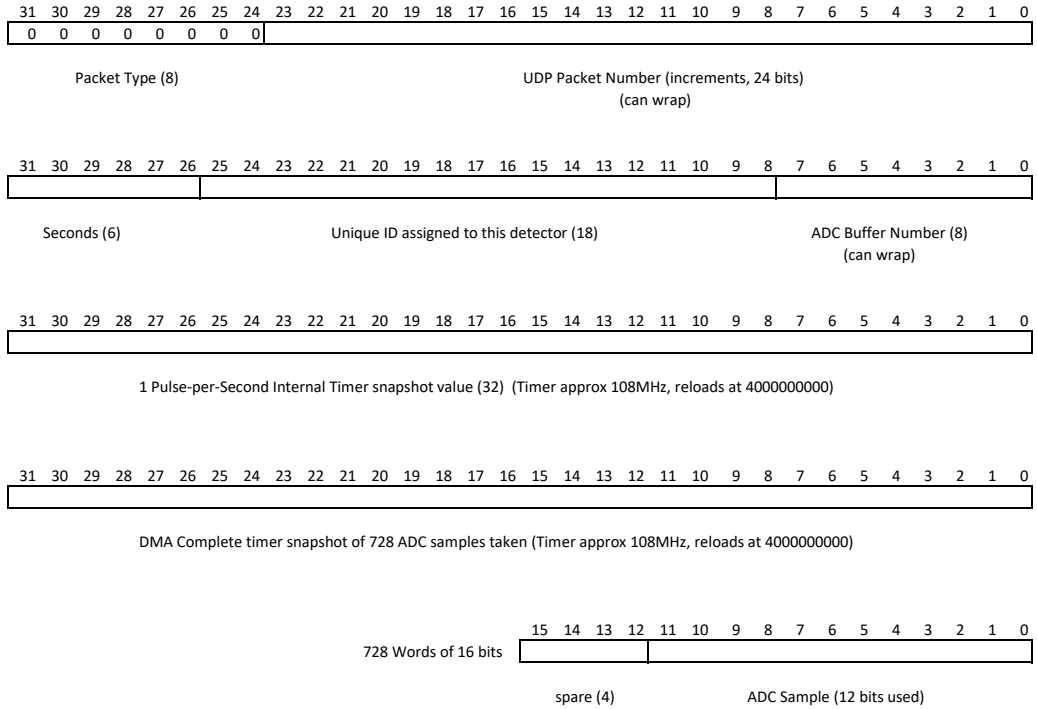
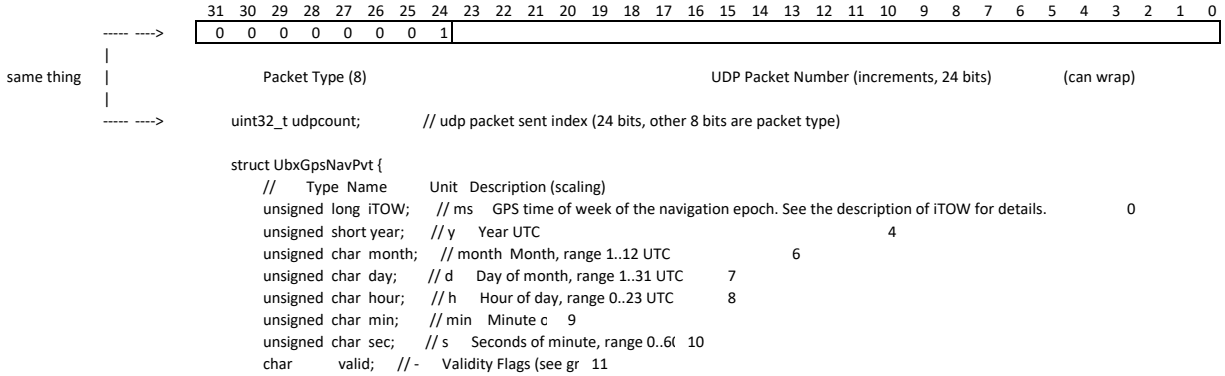
Version 1.0 25th February 2018

## ADC SAMPLE PACKET (1472 Bytes)

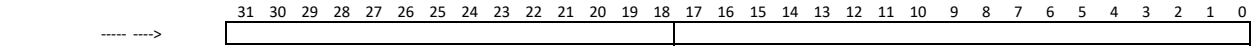



## Status Packet (100 Bytes)



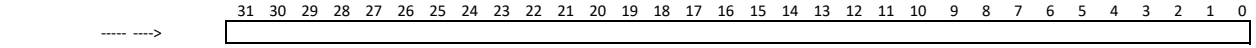

```
uint32_t udpcount;          // udp packet sent index (24 bits, other 8 bits are packet type)

struct UbxGpsNavPvt {
    //      Type  Name        Unit   Description (scaling)
    unsigned  long  iTOW;     // ms    GPS time of week of the navigation epoch. See the description of iTOW for details.   0
    unsigned  short year;     // y     Year UTC                                                                              4
    unsigned  char  month;    // month  Month, range 1..12 UTC                                                               6
    unsigned  char  day;      // d     Day of month, range 1..31 UTC                                                         7
    unsigned  char  hour;     // h     Hour of day, range 0..23 UTC                                                          8
    unsigned  char  min;      // min   Minute c                                                                              9
    unsigned  char  sec;      // s     Seconds of minute, range 0..6(                                                        10
    char          valid;      // -     Validity Flags (see gr                                                              11
```

```
unsigned long tAcc;     // ns    Time accuracy estimate UTC   12
long         nano;      // ns    Fraction of second, range -1e9..1e9 UTC          16
unsigned char fixType;   // -     GNSSfix Type, range 0..5                   20
char         flags;     // -     Fix Status Flags (see graphic b  21
unsigned char reserved1; // -     22
unsigned char numSV;  23
long         lon;       // deg   Longitude (1e-  24
long         lat;       // deg   Latitude (1e-7)                  28
long         height;    // mm    Height above Ellipsoid                     32
long         hMSL;      // mm    Height above mean sea level                      36
unsigned long hAcc;     // mm    Horizontal Accuracy Estimate                          40
unsigned long vAcc;     // mm    Vertical Accuracy Estimate                  44
long         velN;      // mm/s  NED north velocity                48
long         velE;      // mm/s  NED east velocity                    52
long         velD;      // mm/s  NED down velocity                    56
long         gSpeed;    // mm/s  Ground Speed (2-D)                60
long         heading;   // deg   Heading of motion 2-D (1e  64
unsigned long sAcc;     // mm/s  Speed Accuracy Estimate    68
unsigned long headingAcc; // deg   Heading Accur  72
unsigned short pDOP;     // -     Position DOP (0.01)               76
short        reserved2; // -     Reserved                                78
unsigned long reserved3; // -     Reserved                               80
} NavPvt;
```



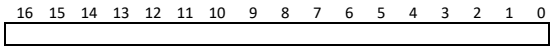

same thing | not used (14) | Unique ID assigned to this detector (18)

uint32_t uid; // only 18 bits used



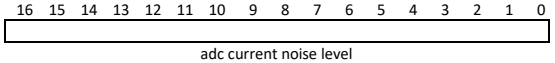

same thing | ADC number of buffers sent in last capture sequence before status packet

uint32_t adcpktssent; // Number of ADC pks sent in this trigger event




adc trigger offset (above the noise)

adctrigoff : uint16_t;
adcnoise : uint16_t;




adc current noise level

Any new fields to be added here …….