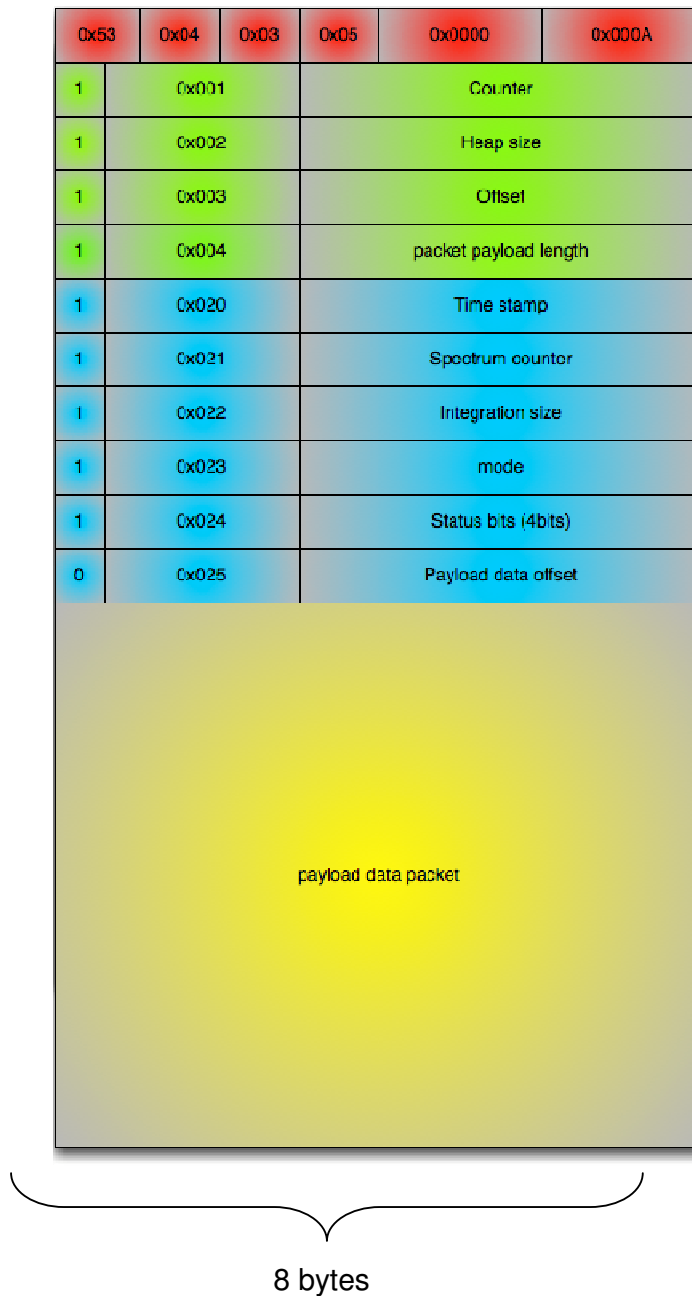


GBT Spectrometer

SPEAD Packet Format for High-Bandwidth Modes



Notes:

1. A single spectrum may be split over multiple SPEAD packets.
2. Within the *Payload Data* field, the data is stored as follows:
Ch0_XX*, Ch0_YY*, Re(Ch0_X*Y), Im(Ch0_X*Y),
...
Ch2047_XX*, Ch2047_YY*, Re(Ch2047_X*Y), Im(Ch2047_X*Y)
3. Each value is a 32-bit signed integer.
4. Ch[0-2047] is the spectral channel. For modes where only 1024 spectral channels are used, the packet will only be 4kB long.
5. XX* is a real number and represents the power in X plane. YY* is a real number and represents the power in Y plane. X*Y is a complex number and represents the cross-correlation. XY* is not transmitted.