

V4L2_SDR_FMT_PCU18BE ('PC18')

Planar complex unsigned 18-bit big endian IQ sample

Description

This format contains a sequence of complex number samples. Each complex number consist of two parts called In-phase and Quadrature (IQ). Both I and Q are represented as a 18 bit unsigned big endian number stored in 32 bit space. The remaining unused bits within the 32 bit space will be padded with 0. I value starts first and Q value starts at an offset equalling half of the buffer size (i.e.) $\text{offset} = \text{buffersize} / 2$. Out of the 18 bits, bit 17:2 (16 bit) is data and bit 1:0 (2 bit) can be any value.

Byte Order. Each cell is one byte.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\linux-master)(Documentation)(userspace-api)(media)(v4l)pixfmt-sdr-pcu18be.rst, line 26)

Unknown directive type "flat-table".

```
.. flat-table::
   :header-rows: 1
   :stub-columns: 0

   * - Offset:
     - Byte B0
     - Byte B1
     - Byte B2
     - Byte B3
   * - start + 0:
     - I'\ :sub:`0[17:10]`
     - I'\ :sub:`0[9:2]`
     - I'\ :sub:`0[1:0]; B2[5:0]=pad`
     - pad
   * - start + 4:
     - I'\ :sub:`1[17:10]`
     - I'\ :sub:`1[9:2]`
     - I'\ :sub:`1[1:0]; B2[5:0]=pad`
     - pad
   * - ...
   * - start + offset:
     - Q'\ :sub:`0[17:10]`
     - Q'\ :sub:`0[9:2]`
     - Q'\ :sub:`0[1:0]; B2[5:0]=pad`
     - pad
   * - start + offset + 4:
     - Q'\ :sub:`1[17:10]`
     - Q'\ :sub:`1[9:2]`
     - Q'\ :sub:`1[1:0]; B2[5:0]=pad`
     - pad
```