## **HW** consumer

An IIO device can be directly connected to another device in hardware. In this case the buffers between IIO provider and IIO consumer are handled by hardware. The Industrial I/O HW consumer offers a way to bond these IIO devices without software buffer for data. The implementation can be found under :file: drivers/iio/buffer/hw-consumer.c`

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\driver-api\iio\(linux-master) (Documentation) (driver-api) (iio) hwconsumer.rst, line 4); backlink
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```

- struct iio\_hw\_consumer â€" Hardware consumer structure
- :c:func:'iio hw consumer alloc' â€" Allocate IIO hardware consumer

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\driver-api\iio\((linux-master)\) (Documentation) (driver-api) (iio) hw-consumer.rst, line 12); backlink

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```

• :c:func:'iio hw consumer free` â€" Free IIO hardware consumer

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\driver-api\iio\(linux-master)\(Documentation\) (driver-api) (iio) hw-consumer.rst, line 13); backlink

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```

• :c:func:'iio hw consumer enable' â€" Enable IIO hardware consumer

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\driver-api\iio\(linux-master)\(Documentation\) (driver-api) (iio) hw-consumer.rst, line 14); backlink

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```

c:func: iio\_hw\_consumer\_disable `â€" Disable IIO hardware consumer

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\driver-api\iio\(linux-master)\Documentation\(driver-api\) (iio) hw-consumer.rst, line 15); backlink

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```

## HW consumer setup

As standard IIO device the implementation is based on IIO provider/consumer. A typical IIO HW consumer setup looks like this:

```
hwc = devm_iio_hw_consumer_alloc(&iio->dev);
}
```

## More details

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.. kernel-doc:: drivers/iio/buffer/industrialio-hw-consumer.c
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