# DWM1001 Development Board - Power Consumption

# Measured through USB port

Une image contenant texte, Appareils électroniques

Description générée automatiquement

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Firmware** | **Setup** | **U** | **I (max)** | **P** |
| Unknown | Unknown | 5V | 31mA | 156mW |

# Estimation with a 3V battery

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Firmware** | **Setup** | **U** | **I (max)** | **P** |
| Unknown | Unknown | 3V | 52mA | 156mW |

# Measured with laboratory power supply (16/06/2023)

**Power supply on J1 connector**

Une image contenant texte, diagramme, Plan, ligne

Description générée automatiquement

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Firmware** | **Setup** | **U** | **I (max)** | **P** |
| Anchor/Transmitter | 4 Anchors - 1 Listener | 3.7V | 40mA | 148mW |
| Listener/Tag | 1 Listener – 1 Anchor | 3.7V | 34mA | 126mW |

# Datasheet extract DW1001

Une image contenant texte, capture d’écran, Police, nombre

Description générée automatiquement

The current level described in the datasheet has never been observed in the previous measure campaign.

As described in the datasheet, the power needed by the module could reach 1.75W

# Battery 2h autonomy based on a 156mW consumption

Pile bouton rechargeable Panasonic 3V, 100mAh, 30mm, Lithium Vanadium Pentoxyde, VL3032

https://fr.rs-online.com/web/p/piles-bouton-rechargeables/0407906



# Battery 2h autonomy based on a 1.75W consumption

<https://fr.rs-online.com/web/p/batteries-taille-speciale/1251266>

Une image contenant texte, capture d’écran, batterie

Description générée automatiquement

# Annexes

# Connecteur Molex 1.25 PicoBlade

https://fr.rs-online.com/web/p/cordons-fil-a-carte/2248682?cm\_mmc=FR-PLA-DS3A-\_-google-\_-CSS\_FR\_FR\_Cables\_%26\_cordons\_et\_fils\_Whoop-\_-(FR:Whoop!)+Cordons+fil+%C3%A0+carte-\_-2248682&matchtype=&pla-321942550056&gclid=CjwKCAjwp6CkBhB\_EiwAlQVyxcc8EZtD0tO86evE6WI9BrQd634MpPSwJFvt0ENdIkdJy4kvpd5NmhoC4hoQAvD\_BwE&gclsrc=aw.ds

Une image contenant câble

Description générée automatiquement avec une confiance faible