MCell 3 – Technical Specification

Name	MCell 3 (part of Mbody 3 product family)
Type	MC3L-1.0
Used with	MShorts 3
For applications	Mbody Live 3 (iOS 9 or later, Android 6 or later) Muscle Monitor 3
Memory type **Memory capacity**	Flash Memory ~30 hours
Channels	6 differential EMG biosignal channels
ADC, sampling and bandwidth	24-bit ADC, sampling rate 1000 Hz, bandwidth 40…200 Hz (−3 dB)

Data type and sampling rate	Averaged EMG
	         25 Hz (online & memory modes)
	         1 Hz (online)

Battery
Battery life (full charged)
Charging time from USB
Readiness time
	Rechargeable Li-ion Polymer Battery (3.7 V, 500 mAh)
	         ~ 30 hours
	         ~ 5 hours
	         ~ 4 weeks

Wireless connectivity	Bluetooth low energy Proprietary "Muscle Load Profile" (GATT based profile) Contains transmitter module FCC ID: TFB-1005, CMIIT ID: 2018DJ0015
Wired connectivity	USB
Operating temperature	0°C … +40°C (32°F … + 104°F)
Humidity	10 … 90 % RH (non-condensing)
Water resistance	Protected against water splashes from top. Do not sink to any fluid.
Dimensions	~ 62 x 38 x 15 mm (2.4 x 1.5 x 0.6 inch)
Weight	~ 28 g (1 oz)
Standards and approvals	FCC, CMIIT, RoHS, WEEE