The major technical features that this provisional product addresses include the following:

1- DT communication has no constraints on the origin of the digital data it transmits.
2- Data can be arranged in any way by the processor.
3- Digital signal processing can occur at the signal source before the data are transmitted from the patient.
4- DT can assess signal fidelity, avoiding signal distortion during transmission.
5- Noise immunity could be due to a fundamental difference between microEEG and other conventional EEG recording amplifiers.
6- microEEG’s wireless data transmission uses Bluetooth technology and could be applicable up to a distance of 10 meters.

In conclusion, one can draw the following summary of the technological aspects that characterize this proposed device: (i) microEEG device references, amplifies, and digitizes the signals at a point very close to the electrodes; (ii) microEEG device can acquire signals with very few electronic components per channel; (iii) microEEG device can transmit the digital signals either wirelessly or optically to a PC using the Bluetooth protocol.