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TECHNICAL REPORT

Smart Body Area Network (SmartBAN); Brain Computer Interface (BCI)

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Foreword

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Executive summary

The present document lays out an outlook for the Brain-Computer Interface (BCI) use case with an invasive ECoG implant and an interface for Wireless Power Transfer (WPT) and data communications. Coping with the high throughput required to capture large portions of the brain, THz technology is presented as a potential new healthcare vertical for future wireless systems, such as 6G and an extension of SmartBAN networks.

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