

MOD1

Add high precision indoor location to your systems

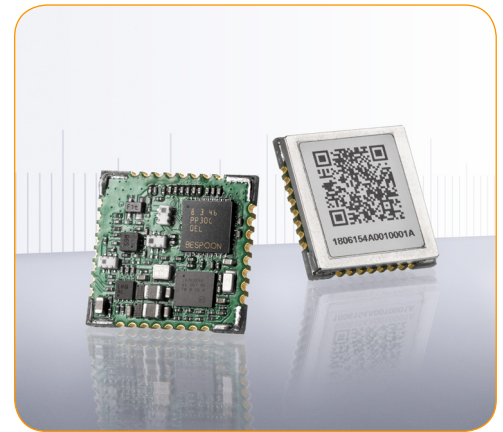
Facing a challenging indoor location context?
Experience **MOD1**!

MOD1 is an ultra compact surface mounted UWB module, which offers best-in-class performances by combining high precision and versatility. Used as the kernel of various adjustable device-centric and server-centric configurations, it fulfils plenty of use case requirements.

Its unique design makes it highly adaptive and easy to integrate into any type of electronic device. It also contains an embedded API for firmware upgrade (mode selection, hardware interface selection, external device control...).

Relying on a significant operative experience and a continuous improvement process, **MOD1**-based location systems offer nearly boundless levels of customization without any software modification.

MOD1 is available as a single module or as the core component of a global solution. You can try it out with our ready-to-use evaluation kit **MEK1**.



Component type	SMD
Dimensions	17 x 18 x 2.6 mm
Precision	down to 10 cm
Measurements per second	adjustable to specific needs up to 204 Multi-Tag Tracking mode up to 250 Two Way Ranging mode
Range	up to 600 m in LoS
Data acquisition	UART link
Control interfaces (slave mode)	SPI (SPI_MISO, SPI_MOSI, SPI_CLK, SPI_CS) Interrupt line Module wakeup line UART (UART_Tx, UART_Rx)
GPIOs	standalone mode up to 16, various alternate functions slave mode up to 10, predefined functions
Channels	1, 2, 3, 4 (3.25 to 4.75 GHz)
Bandwidth	500 MHz & 1 GHz
Tx	mean power: -41.3 dBm/MHz peak power: -10 dBm/MHz max.
Max. sensitivity	down to -118 dBm
API	ready-to-go BeSpooon Protocol

MOD1 on AnchorPCB

