Module Series

8K Wireless Mouse Solution

ITM-DV8

ITM-MV8-ANT

ITM-MV8-ANT / ITM-DV8

- 2.4GHz Wireless Mouse Solution
- Support Max. 8KHz Polling Rate
- Low Latency - Less than 125us

- USB2.0 High-Speed
- Optical Sensor with Maximum Resolution up to 20000 DPI
- 3+1 Programmable Buttons

ITM-MV8-ANT and ITM-DV8 use Brickcom RF chipset ITM-WM8K to implement the world-wide first wireless mouse solution up to 8KHz polling rate. ITM-MV8-ANT is the module PCBA designed for the mouse side, connected to optical sensor, buttons, wheel, LEDs and 3.3V power source. ITM-DV8 is an USB dongle PCBA designed for the PC/NB side, to transmit/receive data to/from ITM-MV8-ANT. Via USB2.0 HS, ITM-DV8 can transfer mouse data from ITM-MV8-ANT to PC/NB with maximum 8KHz polling rate.

Main Specification	
Model Name	8K Wireless Mouse Solution – ITM-MV8-ANT / ITM-DV8
ITM-MV8	
Processor	Cortex-M4 MCU
Wireless/Antenna Type	2.4GHz Proprietary RF / Chip Antenna
Mouse Sensor Type	Optical
Max. Sensor Resolution	20000 DPI
Number of Buttons	3+1 (wheel)
Power consumption	16,4mA (Est,) @ 8KHz report rate* Not Including Optical Sensor and LEDs 0.1mA (Est.) @ Sleep Mode
ITM-DV8	
Processor	Cortex-M4 MCU
Wireless/Antenna Type	2.4GHz Proprietary RF / Chip Antenna
Interface to PC/NB	USB2.0 High-Speed
Max. Report Rate	8000Hz
Power Supply	USB 5V Bus Power

*Average current consumption after optimization