

# How to increase

## Introduction

Bluetooth dongle can be easily modified to attach an external 2.4 GHz antenna to it and increase the range up to 1 km.

## Prerequisites

### Hardware list:

- [Smyka Bluetooth Dongle V.2](#)
- [Expendable Antenna](#)

## Step 1:

## Step 2:

## Step 3:

## Testing

## Conclusion

## References

- [YT: Bluetooth USB Hacking, add an external MMCX antenna socket](#)
- [23C3: Bluetooth Hacking Revisited](#)
- <http://www.seattlewireless.net/DirectionalYagi>
- <http://www.yagiantenna.net/>

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