

The communication protocol is composed of a single command that is used to activate the sensors:

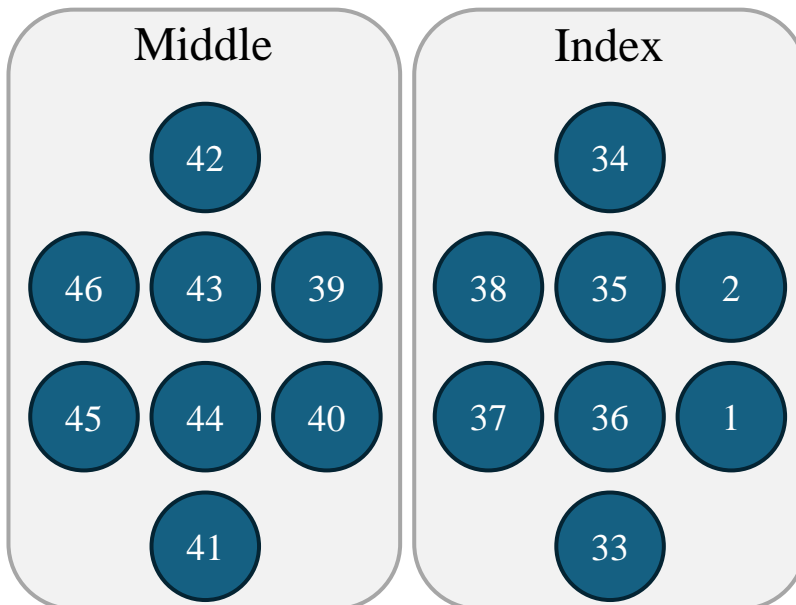
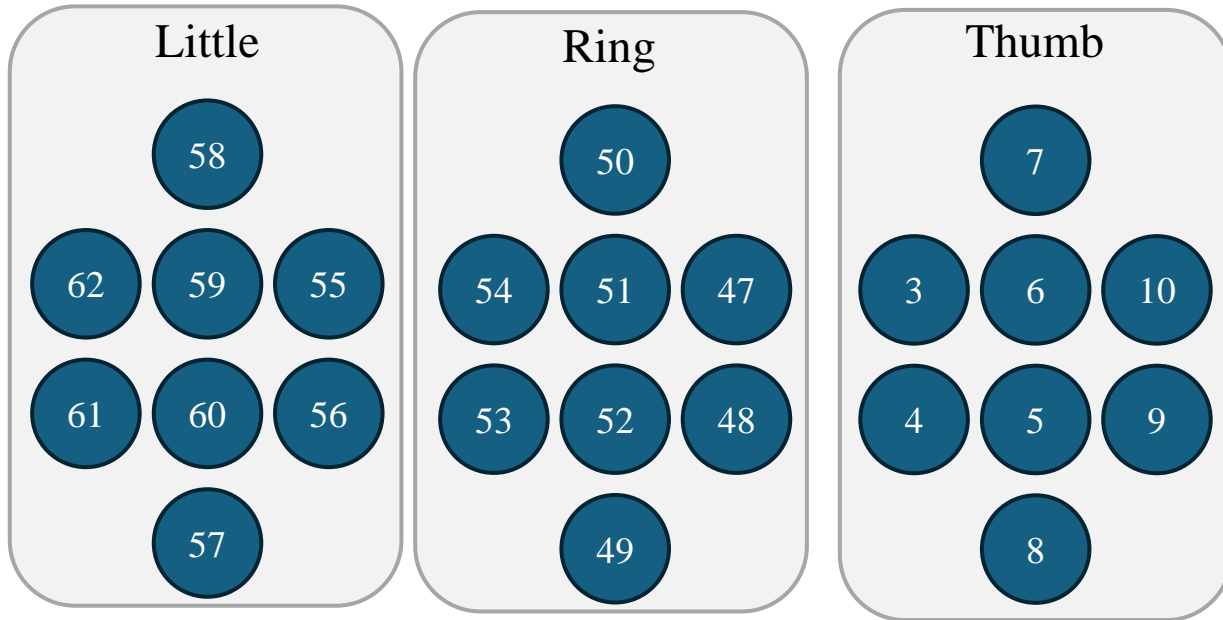
The command is: **chnxxxxxxxx\n** where:

- 1- **chn**: is the header and it is fixed.
- 2- **xxxxxxxx**: is the hexadecimal representation of a 64bit integer, where each bit represent the activation status of a single sensor.
- 3- **\n**: the command terminator and it is fixed.

Binary presentation of **xxxxxxxx**:



Communication protocol:



Examples:

- 1- Disactivate all sensors: **6368 6E00 0000 0000 0000 000A**
- 2- Activate sensor 1: **6368 6E00 0000 0000 0000 010A**
- 3- Activate Thumb: **6368 6E00 0000 0000 0003 FC0A**
- 4- Activate Index: **6368 6E00 0000 3F00 0000 030A**
- 5- Activate Middle: **6368 6E00 003F C000 0000 000A**
- 6- Activate Ring: **6368 6E00 3FC0 0000 0000 000A**
- 7- Activate Little: **6368 6E3F C000 0000 0000 000A**
- 8- Activate the sensors on the AR10 hand: **6368 6E3F FFFF FF00 0003 FF0A**

The communication with the sensing system should be at a baud rate of 10000000 bps. The response of the sensors will be retrieved by encoding the commands sent by the system to the host PC in the following form:

3C3E00x1x2xx.....xxn where

- 1- 3C3E00 is the fixed header, doesn't change.
- 2- Each of x1,..., and xn are the 2-byte representation of the voltage response of the first selected channel.
- 3- The order of the sensors follows the numerical order for example if sensors 1, 5, and 6 are selected then the command will be as follow: 3C3E00x1x5x6.