Format général d’un paquet TCP :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Numéro de l’octet** | 1 | 2 | 3 | … | 3 + (x-1) |
| **Paquet** | Mnémonique | Taille x de la data en octets | Data | | |

Liste des commandes envoyées par le superviseur :

1. Décollage / Atterrissage

|  |  |  |  |
| --- | --- | --- | --- |
| **Numéro de l’octet** | 1 | 2 | 3 |
| **Paquet** | ‘T’ | 1 | 0 = Landing  1 = Takeoff |

1. Go to a square

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Numéro de l’octet** | 1 | 2 | 3 | 4 |
| **Paquet** | ‘G’ | 2 | ‘A’, ‘B’ ou ‘C’ (column) | ‘1’, ’2’ ou ‘3’ (line) |

1. Stop / Resume mission

|  |  |  |  |
| --- | --- | --- | --- |
| **Numéro de l’octet** | 1 | 2 | 3 |
| **Paquet** | ‘R’ | 1 | 0 = Stop  1 = Resume |

1. Deconection

|  |  |  |  |
| --- | --- | --- | --- |
| **Numéro de l’octet** | 1 | 2 | 3 |
| **Paquet** | ‘D’ | 1 | 1 = Deconection |

1. Emergency

|  |  |  |  |
| --- | --- | --- | --- |
| **Numéro de l’octet** | 1 | 2 | 3 |
| **Paquet** | ‘E’ | 1 | 1 = reset  0 = Emergency landing |

Liste des commandes envoyées par le drone :

1. Navdata

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Numéro de l’octet** | 1 | 2 | 3 | 4 | 5 | 6 |
| **Paquet** | ‘N’ | 4 | Navdata (int)  Little endian | | | |

1. Battery level

|  |  |  |  |
| --- | --- | --- | --- |
| **Numéro de l’octet** | 1 | 2 | 3 |
| **Paquet** | ‘B’ | 1 | Battery level (byte) |

1. Square reached

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Numéro de l’octet** | 1 | 2 | 3 | 4 |
| **Paquet** | ‘G’ | 2 | ‘A’, ‘B’ ou ‘C’ (column) | ‘1’, ’2’ ou ‘3’ (line) |

1. Angles

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Numéro de l’octet** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | 12 | 13 | 14 |
| **Paquet** | ‘A’ | 12 | Theta (int)  Little endian | | | | Phi (int)  Little endian | | | | | Psi (int)  Little endian | | | |

1. Altitude

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Numéro de l’octet** | 1 | 2 | 3 | 4 | 5 | 6 |
| **Paquet** | ‘H’ | 4 | Altitude (int)  Little endian | | | |

1. Speed

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Numéro de l’octet** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 | 9 | 10 |
| **Paquet** | ‘S’ | 8 | Horizontal speed (int)  Little endian | | | | | Vertical speed (int)  Little endian | | | |

1. Debugs
   1. Machine with states ???

|  |  |  |  |
| --- | --- | --- | --- |
| **Numéro de l’octet** | 1 | 2 | 3 |
| **Paquet** | ‘M’ | 1 | Current state (int) |

* 1. Last at command state

|  |  |  |  |
| --- | --- | --- | --- |
| **Numéro de l’octet** | 1 | 2 | 3 |
| **Paquet** | ‘C’ | 1 | Command (int) |