Datum: 19. 1. 2024

Sistem Motor\_Control\_V2.0 (MC2) ima dva Motorja, za katera pošilja stanje nadzornemu krmilniku (supervisor) / PC-ju. Nadzorni krmilnik pošila referenčne hitrosti pozicije na (MC2). MC2 pošilja tudi svoje splošno stanje.

Seznam ID jev

|  |  |  |
| --- | --- | --- |
| **Sporočilo** | **ID** | **Smer** |
| Controller\_State | 0x400 | MC2 -> Nadzornik |
| Motor\_pos\_vel\_1 | 0x410 | MC2 -> Nadzornik |
| Motor\_pos\_vel\_ref\_1 | 0x411 | MC2 -> Nadzornik |
| Motor\_status\_1 | 0x412 | Nadzornik -> MC2 |
| Motor\_pos\_vel\_2 | 0x420 | MC2 -> Nadzornik |
| Motor\_pos\_vel\_ref\_2 | 0x421 | MC2 -> Nadzornik |
| Motor\_status\_2 | 0x422 | Nadzornik -> MC2 |

Vsa sporočila Motor\_reference imajo enako strukturo

Vse besede so zložene Big Endian

Bn pomeni n-ti byte sporočila

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Motor\_pos\_vel\_n** | | | | **0x4n0** | | | |
| B0 | B1 | B2 | B3 | B4 | B5 | B6 | B7 |
| Pos\_4 | Pos\_3 | Pos\_2 | Pos\_1 | Vel\_4 | Vel\_3 | Vel\_2 | Vel\_1 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Motor\_pos\_vel\_ref\_n** | | | | **0x4n1** | | | |
| B0 | B1 | B2 | B3 | B4 | B5 | B6 | B7 |
| Pos\_r\_4 | Pos\_r\_3 | Pos\_r\_2 | Pos\_r\_1 | Vel\_r\_4 | Vel\_r\_3 | Vel\_r\_2 | Vel\_r\_1 |

Pos\_n: 4 bytes trenutna pozicija [rad] (factor x1000)

Pos\_r\_n: 4 bytes trenutna želena pozicija [rad] (factor x1000)

Vel\_n: 4 bytes, trenutna hitrost [rad/s] (factor x1000)

Vel\_r\_n: 4 bytes, trenutna želena hitrost [rad/s] (factor x1000)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Motor\_status\_n** | | | | **0x4n2** | | | |
| B0 | B1 | B2 | B3 | B4 | B5 | B6 | B7 |
| MS1 | MS2 | Res | Res | Res | Res | Res | Res |