

Part I

software

Noder

1.1 Node spesifikationer

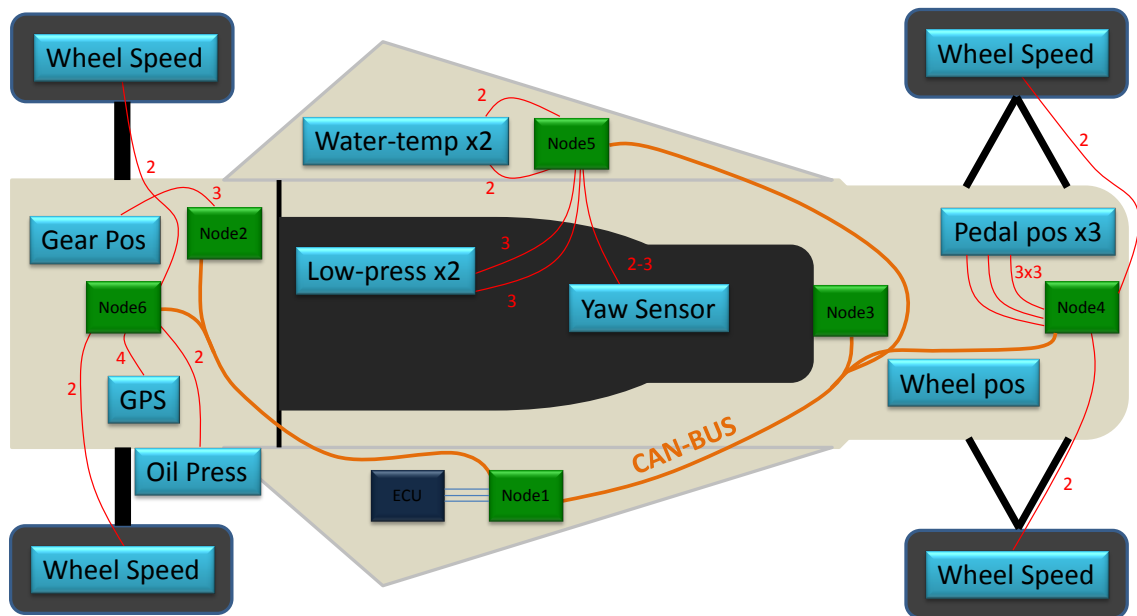


Figure 1.1: Diagram over noder på bil.

Node 4				
Sensor	Antal	Data size [bit]	Total [bit]	Updateringsrate [Hz]
Speeder pedal pos	1	8	8	20 ?
Break pedal pos	1	8	8	20 ?
Clutch pedal pos	1	8	8	20 ?
Steering wheel pos	1	8	8	20 ?
Wheel speed front	2	8	16	50 ?

Table 1.1: Node 4 sensor specification.

Node 5				
Sensor	Antal	Data size [bit]	Total [bit]	Updateringsrate [Hz]
Low-press	2	8	16	10 ?
Yaw	1	30	30	30 ?
Water-temp	2	8	16	1

Table 1.2: Node 5 sensor specifikation.

Node 6				
Sensor	Antal	Data size [bit]	Total [bit]	Updateringsrate [Hz]
Wheel speed back	2	8	16	50 ?
Olie press	1	8	8	10
GPS	1	40 ?	40 ?	< 5 ?

Table 1.3: Node 6 sensor specifikation.

Can protocol 2

2.1 CAN data pakke

Standart CAN datapakke		
Type	Tid	Variabel data længde
6 bit	6 bit	max 52 bit

Table 2.1: Layout for standart CAN data pakke.

Definition af værdi for CAN datapakke typer			
Navn	Kort navn	Værdi hex	Beskrivelse
Wheel speed back	WhlSpdB	0x01	Hjul hastighed for begge baghjul
Wheel speed front	WhlSpdF	0x02	Hjul hastighed for begge forhjul

Table 2.2: CAN datapakke typer.

Definition af wheel speed back CAN datafelt							
	Datafelt						Total [bit]
Size [bit]	8	8	8	8	8	8	48
Indhold	Left	Left	Left	Right	Right	Right	

Table 2.3: CAN wheel speed back datafelt.

Definition af wheel speed front CAN datafelt							
	Datafelt						Total [bit]
Size [bit]	8	8	8	8	8	8	48
Indhold	Left	Left	Left	Right	Right	Right	

Table 2.4: CAN wheel speed front datafelt.