

CAN frame definition

General parameters for the message

CAN bitrate [Hz]	any
CAN FD bitrate [Hz]	n/a
CAN frame format	SFF
CAN ID	0x146
Mode	broadcast
Broadcast rate [Hz]	50 Hz
Poll message	n/a

		0								1								2								3								4								5								6								7																							
<i>CAN payload bytes</i>																																																																																	
<i>Intel bit numbering</i>		7	6	5	4	3	2	1	0	15	14	13	12	11	10	9	8	23	22	21	20	19	18	17	16	31	30	29	28	27	26	25	24	39	38	37	36	35	34	33	32	47	46	45	44	43	42	41	40	55	54	53	52	51	50	49	48	63	62	61	60	59	58	57	56																
<i>Motorola bit numbering (sane)</i>		63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0																
<i>Motorola LSB bit numbering (weird)</i>		7	6	5	4	3	2	1	0	15	14	13	12	11	10	9	8	23	22	21	20	19	18	17	16	31	30	29	28	27	26	25	24	39	38	37	36	35	34	33	32	47	46	45	44	43	42	41	40	55	54	53	52	51	50	49	48	63	62	61	60	59	58	57	56																
<i>Bit in byte</i>		7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0								
FR (or RC)	int16 t (signed, little-endian) 0.001m/s, 0xffff = invalid	7	6	5	4	3	2	1	0	15	14	13	12	11	10	9	8																																																																
FL	int16 t (signed, little-endian) 0.001m/s, 0xffff = invalid																	7	6	5	4	3	2	1	0	15	14	13	12	11	10	9	8																																																
RR	int16 t (signed, little-endian) 0.001m/s, 0xffff = invalid																																	7	6	5	4	3	2	1	0	15	14	13	12	11	10	9	8																																
RL	int16 t (signed, little-endian) 0.001m/s, 0xffff = invalid																																																	7	6	5	4	3	2	1	0	15	14	13	12	11	10	9	8																

Example

FR = 1.234 m/s --> value = 1234 = 0x04d2
 FL = -1.234 m/s --> value = -1234 = 0xfb2e
 RR = n/a --> value = 0xffff
 RL = n/a --> value = 0xffff

1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	1	1	0	0	0	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0xd2								0x04								0x2e								0xfb								0xff								0xff								0xff																

CAN frame payload