

# FDI\_Standard\_Can\_link 讯通协议[校订]

**ID:544, 长度 = 7 字节, 名称 : FDI\_ECAN\_MSG\_TRACK\_SLIP\_CURVATURE**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	rad	0.0001	ANGLE_TRACK
2	2	int16_t	rad	0.0001	ANGLE_SLIP
4	2	Uint16_t	m	0.01	CURVATURE_RADIUS
6	1	Uint8_t		1	AUTO_STATUS

**ID:521, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_EVENT\_TIME\_E**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	Uint16_t	us	1	TIME_OFFSET_0
2	2	Uint16_t	us	1	TIME_OFFSET_1
4	2	Uint16_t	us	1	TIME_OFFSET_2
6	2	Uint16_t	us	1	TIME_OFFSET_3

**ID:520, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_EVENT\_INFO\_E**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP
4	4	Uint32_t		1	STATUS

**ID:519, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_EVENT\_TIME\_D**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	Uint16_t	us	1	TIME_OFFSET_0
2	2	Uint16_t	us	1	TIME_OFFSET_1
4	2	Uint16_t	us	1	TIME_OFFSET_2
6	2	Uint16_t	us	1	TIME_OFFSET_3

**ID:518, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_EVENT\_INFO\_D**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP

4	4	Uint32_t		1	STATUS
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**ID:393, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_GPS2\_HDT**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	Uint16_t	°	0.01	TRUE_HEADING
2	2	Uint16_t	°	0.01	TRUE_HEADING_ACC
4	2	int16_t	°	0.01	PITCH
6	2	Uint16_t	°	0.01	PITCH_ACC

**ID:392, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_GPS2\_HDT\_INFO**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP
4	2	Uint16_t		1	STATUS

**ID:391, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_GPS2\_POS\_ACC**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	Uint16_t	m	0.01	LATITUDE_ACC
2	2	Uint16_t	m	0.01	LONGITUDE_ACC
4	2	Uint16_t	m	0.01	ALTITUDE_ACC
6	2	Uint16_t		1	BASE_STATION_ID

**ID:390, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_GPS2\_POS\_ALT**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	int32_t	m	0.001	ALTITUDE
4	2	int16_t	m	0.005	UNDULATION
6	1	Uint8_t		1	NUM_SV
7	1	Uint8_t	s	1	DIFF_CORR_AGE

**ID:389, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_GPS2\_POS**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	int32_t	°	0.0000001	LATITUDE
4	4	int32_t	°	0.0000001	LONGITUDE

**ID:388, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_GPS2\_POS\_INFO**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP
4	4	Uint32_t		1	STATUS

**ID:387, 长度 =4 字节, 名称 : FDI\_ECAN\_MSG\_GPS2\_VEL\_COURSE**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	Uint16_t	°	0.01	COURSE
2	2	Uint16_t	°	0.01	COURSE_ACC

**ID:386, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_GPS2\_VEL\_ACC**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	S-1	0.01	VELOCITY_ACC_N
2	2	int16_t	S-1	0.01	VELOCITY_ACC_E
4	2	int16_t	S-1	0.01	VELOCITY_ACC_D

**ID:385, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_GPS2\_VEL**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	S-1	0.01	VELOCITY_N
2	2	int16_t	S-1	0.01	VELOCITY_E
4	2	int16_t	S-1	0.01	VELOCITY_D

**ID:384, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_GPS2\_VEL\_INFO**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP
4	4	Uint32_t		1	STATUS

**ID:377, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_GPS1\_HDT**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	Uint16_t	°	0.01	TRUE_HEADING
2	2	Uint16_t	°	0.01	TRUE_HEADING_ACC
4	2	int16_t	°	0.01	PITCH
6	2	Uint16_t	°	0.01	PITCH_ACC

**ID:376, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_GPS1\_HDT\_INFO**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP
4	2	Uint16_t		1	STATUS

**ID:375, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_GPS1\_POS\_ACC**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	Uint16_t	m	0.01	LATITUDE_ACC
2	2	Uint16_t	m	0.01	LONGITUDE_ACC
4	2	Uint16_t	m	0.01	ALTITUDE_ACC
6	2	Uint16_t		1	BASE_STATION_ID

**ID:374, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_GPS1\_POS\_ALT**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	int32_t	m	0.001	ALTITUDE
4	2	int16_t	m	0.005	UNDULATION
6	1	Uint8_t		1	NUM_SV
7	1	Uint8_t	s	1	DIFF_CORR_AGE

**ID:373, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_GPS1\_POS**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	int32_t	°	0.0000001	LATITUDE
4	4	int32_t	°	0.0000001	LONGITUDE

**ID:372, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_GPS1\_POS\_INFO**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP
4	4	Uint32_t		1	STATUS

**ID:371, 长度 =4 字节, 名称 : FDI\_ECAN\_MSG\_GPS1\_VEL\_COURSE**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	Uint16_t	°	0.01	COURSE
2	2	Uint16_t	°	0.01	COURSE_ACC

**ID:370, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_GPS1\_VEL\_ACC**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	S-1	0.01	VELOCITY_ACC_N
2	2	int16_t	S-1	0.01	VELOCITY_ACC_E
4	2	int16_t	S-1	0.01	VELOCITY_ACC_D

**ID:369, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_GPS1\_VEL**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	S-1	0.01	VELOCITY_N
2	2	int16_t	S-1	0.01	VELOCITY_E
4	2	int16_t	S-1	0.01	VELOCITY_D

**ID:368, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_GPS1\_VEL\_INFO**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP
4	4	Uint32_t		1	STATUS

**ID:358, 长度 = 5 字节, 名称 : FDI\_ECAN\_MSG\_DEPTH\_INFO**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP
4	1	Uint8_t		1	DEPTH_STATUS

**ID:356, 长度 = 6 字节, 名称 : FDI\_ECAN\_MSG\_AIR\_DATA\_AIRSPEED**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	int32_t	pa	0.001	PRESSURE_DIFF
4	2	int16_t	m.s-1	0.01	AIRSPEED

**ID:355, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_AIR\_DATA\_ALTITUDE**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	pa	0.001	PRESSURE_ABS
4	4	int32_t	m	0.001	ALTITUDE

**ID:354, 长度 =7 字节, 名称 : BG\_ECAN\_MSG\_AIR\_DATA\_INFO**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP
4	1	Uint8_t		1	AIR_DATA_STATUS
5	2	Int16_t	°C	0.01	AIR_TEMPERATURE

**ID:353, 长度 =2 字节, 名称 : FDI\_ECAN\_MSG\_ODO\_VEL**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	Int8_t	m.s_1	0.01	VELOCITY

**ID:352, 长度 = 6 字节, 名称 : FDI\_ECAN\_MSG\_ODO\_INFO**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP
4	2	Uint16_t		1	ODO_STATUS

**ID:338, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_MAG\_2**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	m.s_2	0.01	ACCEL_X
2	2	int16_t	m.s_2	0.01	ACCEL_Y
4	2	int16_t	m.s_2	0.01	ACCEL_Z

**ID:337, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_MAG\_1**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	a.u.	0.001	MAG_X
2	2	int16_t	a.u.	0.001	MAG_Y
4	2	int16_t	a.u.	0.001	MAG_Z

**ID:336, 长度 = 6 字节, 名称 : FDI\_ECAN\_MSG\_MAG\_0**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP
4	2	Uint16_t		1	STATUS

**ID:333, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_SHIP\_MOTION\_HP\_2**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	m.s-1	0.01	VEL_X
2	2	int16_t	m.s-1	0.01	VEL_Y
4	2	int16_t	m.s-1	0.01	VEL_Z

**ID:332, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_SHIP\_MOTION\_HP\_1**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	m.s-2	0.01	ACCEL_X
2	2	int16_t	m.s-2	0.01	ACCEL_Y
4	2	int16_t	m.s-2	0.01	ACCEL_Z

**ID:331, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_SHIP\_MOTION\_HP\_0**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	m	0.001	SURGE
2	2	int16_t	m	0.001	SWAY
4	2	int16_t	m	0.001	HEAVE

**ID:330, 长度 =8 字节, 名称 : FDI\_ECAN\_MSG\_SHIP\_MOTION\_HP\_INFO 0038**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	UInt32_t	us	1	TIME_STAMP
4	2	UInt16_t	s	0.01	PERIOD
6	2	UInt16_t		1	STATUS

**ID:329, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_SHIP\_MOTION\_2**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	m.s-1	0.01	VEL_X
2	2	int16_t	m.s-1	0.01	VEL_Y
4	2	int16_t	m.s-1	0.01	VEL_Z

**ID:325, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_SHIP\_MOTION\_1**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	m.s-2	0.01	ACCEL_X

2	2	int16_t	m.s-2	0.01	ACCEL_Y
4	2	int16_t	m.s-2	0.01	ACCEL_Z

**ID:321, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_SHIP\_MOTION\_0**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	m	0.001	SURGE
2	2	int16_t	m	0.001	SWAY
4	2	int16_t	m	0.001	HEAVE

**ID:320, 长度 =8 字节, 名称 : FDI\_ECAN\_MSG\_SHIP\_MOTION\_INFO**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP
4	2	Uint16_t	s	0.01	PERIOD
6	2	Uint16_t		1	STATUS

**ID:313, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_UKF\_VEL\_BODY**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	m.s-1	0.01	VELOCITY_X
2	2	int16_t	m.s-1	0.01	VELOCITY_Y
4	2	int16_t	m.s-1	0.01	VELOCITY_Z

**ID:312, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_UKF\_VEL\_NED\_ACC**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	m.s-1	0.01	VELOCITY_ACC_N
2	2	int16_t	m.s-1	0.01	VELOCITY_ACC_E
4	2	int16_t	m.s-1	0.01	VELOCITY_ACC_D

**ID:311, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_UKF\_VEL\_NED**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	m.s-1	0.01	VELOCITY_N
2	2	int16_t	m.s-1	0.01	VELOCITY_E
4	2	int16_t	m.s-1	0.01	VELOCITY_D



**ID:310, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_UKF\_POS\_ACC**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	m	0.01	LATITUDE_ACC
2	2	int16_t	m	0.01	LONGITUDE_ACC
4	2	int16_t	m	0.01	ALTITUDE_ACC

**ID:309, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_UKF\_ALTITUDE**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	int32_t	m	0.001	ALTITUDE
4	2	int16_t	m	0.005	UNDULATION

**ID:308, 长度 =8 字节, 名称 : FDI\_ECAN\_MSG\_UKF\_POS**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	int32_t	°	0.0000001	LATITUDE
4	4	int32_t	°	0.0000001	LONGITUDE

**ID:307, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_UKF\_ORIENTATION\_ACC**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	rad	0.0001	ROLL_ACC
2	2	int16_t	rad	0.0001	PITCH_ACC
4	2	int16_t	rad	0.0001	YAW_ACC

**ID:306, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_UKF\_EULER**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	rad	0.0001	ROLL
2	2	int16_t	rad	0.0001	PITCH
4	2	int16_t	rad	0.0001	YAW

**ID:305, 长度 = 8 字节, 名称 : FDI\_ECAN\_MSG\_UKF\_QUAT**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t		1/32767	Q0
2	2	int16_t		1/32767	Q1
4	2	int16_t		1/32767	Q2

6	2	int16_t		1/32767	Q3
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**ID:304, 长度 = 4 字节, 名称 : FDI\_ECAN\_MSG\_UKF\_INFO**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Int32_t	us	1	TIME_STAMP

**ID:292, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_IMU\_DELTA\_ANGLE**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	rad.s-1	0.001	DELTA_ANGLE_X
2	2	int16_t	rad.s-1	0.001	DELTA_ANGLE_Y
4	2	int16_t	rad.s-1	0.001	DELTA_ANGLE_Z

**ID:291, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_IMU\_DELTA\_VEL**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	m.s-2	0.01	DELTA_VEL_X
2	2	int16_t	m.s-2	0.01	DELTA_VEL_Y
4	2	int16_t	m.s-2	0.01	DELTA_VEL_Z

**ID:290, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_IMU\_GYRO**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	rad.s-1	0.001	GYRO_X
2	2	int16_t	rad.s-1	0.001	GYRO_Y
4	2	int16_t	rad.s-1	0.001	GYRO_Z

**ID:289, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_IMU\_ACCEL**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	2	int16_t	m.s-2	0.01	ACCEL_X
2	2	int16_t	m.s-2	0.01	ACCEL_Y
4	2	int16_t	m.s-2	0.01	ACCEL_Z

**ID:288, 长度 =8 字节, 名称 : FDI\_ECAN\_MSG\_IMU\_INFO**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	UInt32_t	us	0.01	TIME_STAMP

4	2	Uint16_t		0.01	STATUS
6	2	int16_t	°C	0.01	TEMPERATURE

**ID:273, 长度 =8 字节, 名称 :FDI\_ECAN\_MSG\_UTC\_1**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	1	Uint8_t	year	1	YEAR
1	1	Uint8_t	month	1	MONTH
2	1	Uint8_t	d	1	DAY
3	1	Uint8_t	h	1	HOUR
4	1	Uint8_t	min	1	MIN
5	1	Uint8_t	s	1	SEC
6	2	Uint16_t	us	100	MICRO_SEC

**ID:272, 长度 =8 字节, 名称 : FDI\_ECAN\_MSG\_UTC\_0**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP
4	4	Uint32_t	ms	1	GPS_TOW

**ID:258, 长度 =6 字节, 名称 : FDI\_ECAN\_MSG\_STATUS\_03**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t		1	SOLUTION
4	2	Uint16_t		1	HEAVE_STATUS

**ID:257, 长度 =8 字节, 名称 : FDI\_ECAN\_MSG\_STATUS\_02**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t		1	COM
4	4	Uint32_t		1	AIDING

**ID:256, 长度 =8 字节, 名称 :FDI\_ECAN\_MSG\_STATUS\_01**

Offset(bytes)	Length(bytes)	Type	Units	Factor	Description
0	4	Uint32_t	us	1	TIME_STAMP
4	2	Uint16_t		1	GENERAL

6	2	Uint16_t		1	CLOCK
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