

潍柴动力自主ECU整车网络通讯技术应用规范

潍柴动力股份有限公司



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1. 修改记录

修改日期	作者	修改原因及内容	版本号	备注
2013. 4. 10	艾聪	初始版本	V1. 0	
2014. 2. 14	艾聪		V2. 0	
2014. 3. 8	艾聪	新增信号数据精度描述	V3. 0	



2. 参考文献

- 【1】 CAN2. 0B
- [2] IS011898
- [3] SAEJ1939/21-CAN Data Link Layer, Issue 1994-07, Revised 2006-12
- [4] SAEJ1939/71-CAN Vehicle Application Layer, Issue 1994-08, Revised 2006-11
- [5] SAEJ1939/73-CAN Application Layer Diagnostics, Issue 1996-02, Revised 2006-09



3. 规范适用说明

- 【1】本规范适用于潍柴高压共轨系统电控单元EDC7UC31,软件版本WP_532_v46,依据SAE J1939 通用协议标准,用于潍柴发动机CAN 总线通讯在基于发动机/车辆中的不同电控单元之间传递、交换信息/指令的应用。
- 【2】有关于CAN通讯协议和报文标准均在参考文献中有定义,本文只涉及部分目前潍柴发动机能够支持的特征报文的信息描述,本规范介绍的协议和特征均符合OSI(开放式系统互联)标准。
- 【3】本规范涉及了SAEJ1939协议的数据链路层、车辆应用层和故障诊断层的描述,标准报文部分注有参考出处,非标部分,则按照本规范的注释详细说明其特征。
 - 【4】潍柴发动机ECU支持高速CAN通讯网络,如有低速CAN网络接入,则需按照CAN通讯标准进行网络布线,加网关模块进行转换。



4. 术语解释

PGN-parameter group number,参数组,SAEJ1939定义术语,用于描述参数特性

EEC-electronic engine controller, 电控发动机控制器

LFE-fuel economy(liquid),燃油经济性

EFL/P1-engine fuel level/pressure, 发动机流体标准/压力

EC-engine configuration,发动机配置

ET-engine temperature,发动机温度

EngR-engine retarder, 发动机缓速器

TC01-tachograph, 仪表

EBC-electronic brake controller, 电子刹车控制器

DMx-diagnostic management,故障管理

TSC1-torque speed control, 扭矩/速度控制

TSC1 AE-requested engine torque/speed, limits from ABS/ESP, 速度/扭矩控制,来自于ABS/ESP

TSC1 DE-requested engine torque/speed, limits from Driveline retarder, 速度/扭矩控制,来自于驱动缓速系统

TSC1_PE-requested engine torque/speed, limits from PTO, 速度/扭矩控制,来自于PTO

TSC1_TE-requested engine torque/speed, limits from Transmission, 速度/扭矩控制,来自于传动系

TSC1 VE-requested engine torque/speed, limits from Vehicle, 速度/扭矩控制,来自于整车

TSC1 AR-requested retarder torque, limits from ABS/ESP, 速度/扭矩控制,来自于ABS/ESP

TSC1 DR-requested retarder torque, limits from Driveline retarder,速度/扭矩控制,来自于驱动缓速系统

TSC1 TR-requested retarder torque, limits from Transmission,速度/扭矩控制,来自于传动系

TSC1 AR-requested retarder torque, limits from Vehicle, 速度/扭矩控制,来自于整车

PGNRQ-Parameter Group Number request,参数组申请



5. 节点源地址列表

表5.1为整车CAN网络中不同电控单元或不同功能模块节点集成于同一CAN网络中的目标地址,均按照SAEJ1939协议标准划分。

表 5.1 SAE J1939 CAN 节点地址

节点地址 (Hex)	节点地址 (Dec)	节点名称
0x 00	0	发动机控制单元
0x 03	3	传动系控制单元 (变速箱)
0x 0B	11	电控刹车系 (ABS/ASR)
0x 0F	15	发动机缓速器
0x 10	16	驱动系统缓速器
0x 17	23	仪表
0x 1D	29	防盗系统
0x 21	33	车身控制单元
0x 24	36	PTO
0x 27	39	车辆智能中心
0x 29	41	排气缓速器
0x EE	238	转速表
0x F9	249	故障诊断
0x 3D	61	DCU



6. 物理层技术条件

6.1 通讯物理介质(线束)双绞线, CANH、CANL 参见 ECU 针脚图:

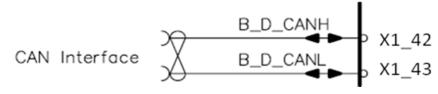


图6-1 ECU CAN针脚

线束技术要求:

- ◆ 线径: 0.6 mm2;
- ◆ 最大双绞间距: 25 twists / m, 即每隔40 mm 绞一个结;
- ◆ 线延迟小于 5 ns/m;
- ◆ 总线长度最大为 40 m , 最多不超过 30 个节点, 且节点与节点间最小要相隔 0.1 m;
- ◆ 节点与总线间距离不超过 0.3 m;
- 6.2 控制器电阻配置 发动机电控单元已内置 120 Ω终端电阻



6.3 协议标准

- SAE J1939
- CAN2. 0B
- 29位标识符
- 支持扩展帧

具体参见文献: SAEJ1939/21-data link layer (数据链路层)

SAEJ1939/71-vehicle application layer(车辆应用层)

SAEJ1939/73-diagnostics application layer(故障诊断层)

- ➤ 传输速率 250kbps
- ▶ 填充格式: Intel
- ▶ 总线拓扑(总线电平) 依据IS011898标准高速CAN部分要求



7. 发送报文列表(Tx/Sending Messages)

	报文名称		标识符ID	Rx/Tx	源地址	周期	参考文献	备注
1	EEC1		0x0CF00400	Tx	0x 00	10ms	SAEJ1939/71 5.3.7	
2	EEC2		0x0CF00300	Tx	0x 00	50ms	SAEJ1939/71 5.3.6	
3	EE	С3	0x18FEDF00	Tx	0x 00	250ms	SAEJ1939/71 5.3.13	
4	AMC	CON	0x18FEF500	Tx	0x 00	1000ms	SAEJ1939/71 5.3.35	
5	CrCt1V	/ehSpd	0x18FEF100	Tx	0x 00	100ms	SAEJ1939/71 5.3.31	
6	EC/DMx CNFBAM EC/DMx CNFPKT EC1 EngTemp FIEco EFL/P1		0x18ECFF00	Tx	0x 00	1000ms	SAEJ1939/21	
7			0x18EBFF00	Tx	0x 00	50ms	SAEJ1939/21	
			0x18FEE300	Tx	0x 00	5s	SAEJ1939/71	
8			0x18FEEE00	Tx	0x 00	1000ms	SAEJ1939/71 5.3.28	
9			0x18FEF200	Tx	0x 00	100ms	SAEJ1939/71 5.3.32	
10			0x18FEEF00	Tx	0x 00	500ms	SAEJ1939/71	
11	LF	FC	0x18FEE900	Tx	0x 00	On request	SAEJ1939/71 5.3.23	
12	DN	И1	0x18FECA00	Tx	0x 00	1000ms	SAEJ1939/73	
13	DM2		0x18FECB00	Tx	0x 00	On request	SAEJ1939/73	
14	DN	1 4	0x18FECD00	Tx	0x 00	On request	SAEJ1939/73	
15	DM11ACK		0x18E8FF00	Tx	0x 00	On request	SAEJ1939/21 5.4.4	
16	INC	CON	0x18FEF600	Tx	0x 00	500ms	SAEJ1939/71 5.3.36	
17	Veh	Pow	0x18FEF700	Tx	0x 00	1000ms	SAEJ1939/71 5.3.37	
18	EngH	rRev	0x18FEE500	Tx	0x 00	On request		



19	ERC1		0x18F0000F	Tx	0x 00	100ms	SAEJ1939/71	
20	shutD	shutDown		Tx	0x 00	1000ms	SAEJ1939/71	
21	$\begin{array}{c c} 21 & FanDrv \\ \hline 22 & EngRetCfg & BAM \\ \hline 23 & CCSS & \end{array}$		0x18FEBD00	Tx	0x 00	1000ms	SAEJ1939/71	
			0x18ECFF0F	Tx	0x 0F	1000ms		
22			0x18EBFF0F	Tx	0x 0F	60ms		
23			0x18FEED00	Tx	0x 00	On request	SAEJ1939/71	
24	DLC	DLCC VD Tx_DOSUUA2		Tx	0x 00	1000ms	SAEJ1939/71	
25	VD			Tx	0x 00	100ms		
26	Tx_DOS			Tx	0x 00	50ms		
27	Tx_AT1	UUA1	0x18FD3E00	Tx	0x 00	500ms		
28	Tx_MI	FDA	0x18FF0000	Tx	0x 00	20ms		
29	MFD	1	0x18FF0800	Tx	0x 00	100ms		
30	Tx_W	FI	0x18FEFF00	Tx	0x 00	10s		
31	CmpntId		0x18FEEB00	Tx	0x 00	On request	SAEJ1939/71	
32	SWI	d	0x18FEDA00	Tx	0x 00	On request		
33	SCRHtı	rSta	0x18FE5C00	Tx	0x 00	1000ms		
34	AdB1	ue	0x18FF2484	Tx	0x 00	100ms		

8. 接收报文列表(Rx/Receiving Messages)

	报文名称	标识符ID	Rx/Tx	源地址	周期	参考文献	备注
1	EBC1	0x18F0010B	Rx	0x 03	10ms	SAEJ1939/71 5.3.4	
2	ERC1-DR	0x18F00010	Rx	0x 10	100ms	SAEJ1939/71 5.3.3	
3	HRVD	0x18FEC1EE	Rx	Ox EE	1000ms	SAEJ1939/71 5.3.54	



						WEICHAI POWER
4	RxAMCON	0x01FEF521	Rx	0x 21	1000ms	SAEJ1939/71 5.3.35
5	TimeDate	0x18FEE6EE	Rx	0x EE	1000ms	SAEJ1939/71
6	DashDspl	0x18FEFC17	Rx	0x 17	1000ms	SAEJ1939/71
7	DM13	0x18DFFF27	Rx	0x 27	1000ms	SAEJ1939/73 5.7.13
8	ETC1	0x0CF00203	Rx	0x 03	10ms	SAEJ1939/71 5.3.5
9	ETC2	0x18F00503	Rx	0x 03	100ms	SAEJ1939/71
10	ETC7	0x18FE4A03	Rx	0x 03	100ms	SAEJ1939/71
11	RxCCVS	0x18FEF121	Rx	0x 21	100ms	SAEJ1939/71 5.3.31
12	PGNRQ	0x18EA0021	Rx	0x 21	On occurence	SAEJ1939/21 5. 4. 2
13	TC01	0x0CFE6CEE	Rx	0x EE	50ms	SAEJ1939/71 5.3.43
14	TSC1AE	0x0C00000B	Rx	0x 0B	10 ms	SAEJ1939/71 5.3.1
15	TSC1AR	0x0C000F0B	Rx	0x 0B	50ms	SAEJ1939/71
16	TSC1DE	0x0C000010	Rx	0x 10	10 ms	SAEJ1939/71 5.3.1
17	TSC1DR	0x0C000F10	Rx	0x 10	50ms	SAEJ1939/71
18	TSC1PE	0x0C000024	Rx	0x 24	10 ms	SAEJ1939/71 5.3.1
19	TSC1TE	0x0C000003	Rx	0x 03	10 ms	SAEJ1939/71 5.3.1
20	TSC1TR	0x0C000F03	Rx	0x 03	50ms	SAEJ1939/71
21	TSC1VE	0x0C000021	Rx	0x 21	10 ms	SAEJ1939/71 5.3.1
22	TSC1VR	0x0C000F21	Rx	0x 21	50ms	SAEJ1939/71
23	WSI	0x18FEBF0B	Rx	0x 0B	50ms	SAEJ1939/71 5.3.56
24	DEC1	0x0CFF0431	Rx	0x 31	20ms	SAEJ1939/71
25	AT101	0x18F00F52	Rx	0x 52	50 ms	SAEJ1939/71
26	CM1	0x18E00021	Rx	0x 21	1000ms	SAEJ1939/71
27	EGF1	0x0CF00A89	Rx	0x 89	50 ms	



28 ActDos 0x18F0233D Rx 0x 3D 10ms

9. 发送报文详细描述(Tx/Sending Messages)

Message/报文			Parameter	definition/参数定义		备注	
Name/ 报文名称	ID/ 地址	Cycle time/ 频率	Type/ 类型	Byte/字节	Bit/ 位	Parameter/参数	
				Byte 1	1-8	Barometric pressure/大气压力	Scale:0.5kPa/bit Offset:0hPa
AMCON				Byte 2-3	1-8	Cab interior temperature/发动机舱内部温度	Not available set to 0xFFFF
环境条件	0x18FEF500	0 1000ms	Tx	Byte 4-5	1-8	Ambient air temperature/ 大气温度	Scale:0.03125℃/bit Offset:-273℃
				Byte 6	1-8	Air inlet temperature/进气温度	Scale:1℃/bit Offset:-40℃
				Byte 7-8	1-8	Road surface temperature/路面温度	Not available set to 0xFF
				Byte 1	1-8	ASCII Value for *, always set to 0x2A	
		00 On request	Tx	Byte 2			First character
				Byte 3			Not used
CmpntId	0x18FEEB00			Byte 4			Not used
ECU软件版本	UX18FEEBUU			Byte 5		Component Identification	Not used
				Byte 6]		Not used
				Byte 7]		Not used
				Byte 8]		Last character
					8-5	Not defined/未定义	
CrCt1VehSpd 巡航控制	0x18FEF100	100ms	Tx	Byte 1	4-3	Status of parking brake/刹车开关状态	00:Not actuated 01:Actuated 10:Error



			11:Not available
	2-1	Not defined/未定义	
Byte 2-3	1-8	Wheel based vehicle Speed/ 车速	Scale:1/256km/h/bit Offset:0
	8-7	Status of clutch switch/离合开关状态	00:Not actuated 01:Actuated 10:Error 11:Not available
Byte 4	6-5	Status of brake switch/刹车开关状态	00:Not actuated 01:Actuated(Brk_st=0x03) 10:Error 11:Not available
	4-3	Cruise control enable/巡航控制使能(不用, 常设为01b)	Not used
	2-1	Cruise control active/巡航控制激活状态标识	00:Not active 01:active
	8-7	Cruise Control Accelerate Switch	00:Not actuated 01:Actuated
Byte 5	6-5	Cruise Control Resume Switch	00:Not actuated 01:Actuated
byte 5	4-3	Cruise Control Resume Switch	00:Not actuated 01:Actuated
	2-1	Cruise Control Set Switch	00:Not actuated 01:Actuated
Byte 6	8-1	Cruise control set speed/巡航控制设定速度	Scale:1km/h/bit
Byte 7	8-6	Cruise control state/巡航控制状态	000:Off/Disable 001:Hold 010:Acc 011:Dec 100:Resume 101:Set 110:Acc Override
	5-1	PTO state/PTO 状态	00000:Disable/Off 00001:Hold



Byte 8								WEICHAI POWER
Byte 8								00010:Not used
Byte 8								00011:Standby/Neutral
Byte 8								00100:Not used
Byte 8								00101:Set
Byte 8								00110:Decelerate
Byte 8								00111:Resume
DM11ACK 故障清除								01000: Acc
DM11ACK								01001:Not used
DM11ACK 故障清除								01010:Programmed set speed
DM11ACK								0
DM11ACK 故障清除								01011:Programmed set speed
DM11ACK 故障清除On requestTxByte 2-51-8Not defined/未定义DM16 Substitution of evals fault memory is successed by the substitution of evals fault memory is substitution of								1
DM11ACK 故障清除 Ox18EBFF00 On request Tx DM11ACK 数障清除 Ox18EBFF00 On request DM11ACK 数								01100:Programmed set speed
DM11ACK 故障清除Ox18EBFF00On requestTxByte 81-8Not defined/未定义Byte 91-8Control Byte/控制字节00:Initiation of erasing fault memory is not success fault memory is success								2
DM11ACK 故障清除Ox18EBFF00On requestTxByte 2-51-8Not defined/未定义11111:Not availableByte 81-8Not defined/未定义Ocontrol Byte/控制字节00:Initiation of erasing fault memory is not success 01: Initiation of erasing fault memory is successByte 2-51-8Not defined/未定义,设为FFFFFFF								01101:Programmed set speed
DM11ACK 故障清除Ox18EBFF00On requestTxByte 2-51-8Not defined/未定义11111:Not availableByte 81-8Not defined/未定义Ocontrol Byte/控制字节00:Initiation of erasing fault memory is not success 01: Initiation of erasing fault memory is successByte 2-51-8Not defined/未定义,设为FFFFFFF								3
Byte 81-8Not defined/未定义DM11ACK 故障清除0x18EBFF00On requestTxByte 11-8Control Byte/控制字节00:Initiation of erasing fault memory is not success fault memory is success fault memory is success								01110-11110:Not used
Byte 1 1-8 Control Byte/控制字节 00:Initiation of erasing fault memory is not succonstant fault memory is not succonstant fault memory is successed by the fault memory								11111:Not available
Byte 1 1-8 Control Byte/控制字节 fault memory is not suc 01: Initiation of erasi fault memory is success by a byte 2-5 1-8 Not defined/未定义,设为FFFFFFFF					Byte 8	1-8	Not defined/未定义	
DM11ACK 故障清除 Ox18EBFF00 On request Tx Byte 1 1-8 Control Byte/控制子节 O1: Initiation of erasi fault memory is success								00:Initiation of erasing of
DM11ACK 故障清除 Ox18EBFF00 On request Tx Byte 2-5 1-8 Not defined/未定义,设为FFFFFFF		0x18EBFF00	On request	Tx	Byte 1	1-8	Control Byte/控制字节	fault memory is not successful
故障清除 0x18EBFF00 On request Tx Byte 2-5 1-8 Not defined/未定义,设为FFFFFFFF								l .
双障清除					Byto 2-5	1_0	Not defined/丰宁 V 设为FFFFFFFF	rault memory is successful
$1 \qquad 1 \qquad$	故障清除				Byte 2 3	1-8	PGN LSB	0xD3
Byte 7 1-8 PGN						.		
· ·					•			
·					byte 8			
Byte 1 8-5 Not defined/未定义 Not used					Byte 1			
						4-1		Scale:16 states/4Bit
Byte 2 Driver's Demand Engine - Percent Torque/ Scale:1%/bit	77.01				Byte 2	1-8		
EECT OxOCF00400 10ms Tx 一		0x0CF00400	10ms	$ _{Tx}$	_ ,			
友动机控制器#1 Scale:1%/bit	え 切机 控制器 #1				Byte 3	1-8		1
Byte 4-5 1-8 Engine Speed/发动机转速 Scale:0.125rpm/bit					D+ - 4 E	1 0	Engine Speed/告刊机柱油	Saala. 0 125rpm/hit
Byte 6 1-8 Source Address of Controlling Device for 1 Source address/bit								



							WEICHAI PUWER	
						Engine Control 控制发动机设备源地址		
				D	8-5	Not Used/未用	Not used	
				Byte 7	4-1	Engine Starter Mode/起动机模式	Not used	
				Byte 8		Engine Demand - Percent Torque/发动机需求扭矩百分比	Scale:1%/bit Offset:-125%	
					8-7	Not Used/未用		
					6-5	Road speed limit status/速度限制状态	00:active 01:Not active 10:Error(Not managed by ECU) 11:Not available	
		00300 50ms	Tx	Byte 1	Byte 1	4-3	Accelerator pedal kick-down switch/踏板 开关	00:Kick-down not active 01:Kick-down active 11:Not available
EEC2 发动机控制器#2	2 0x0CF00300				2-1	Accelerator pedal low idle switch/加速踏 板低怠速开关	00:Low idle switch signal not active 01:Low idle switch signal active 10:Error 11:Not available	
				Byte 2	1-8	Accelerator pedal position/ 踏板位置	Scale: 0.4%/bit	
				Byte 3	1-8	percent load at current speed/当前转速下 负荷百分比	Scale:1%/bit	
				Byte 4	1-8	Remote accelerator pedal position	0.4 %/bit, 0 offset	
				Byte 5	1-8	Not defined/未定义	Not used	
				Byte 6	1-8	Not defined/未定义	Not used	
				Byte 7	1-8	Actual maximum available engine ercentage torque	Scale:0.4%/bit	
				Byte 8	1-8	Not defined/未定义		
EECO				Byte 1	1-8	nominal friction percent torque/摩擦扭矩百分比	Scale:1%/bit Offset:-125%	
EEC3 发动机控制器#3	0x18FEDF00	250ms	Tx	Byte 2-3	1-8	engine's desired operating speed/发动机 目标运行速度	Scale: 0.125rpm/bit	
				Byte 4	1-8	engine's operating speed asymmetry	1 ratio	



						adjustment/发动机平稳调整	
				Byte 5	1-8	Estimated Engine Parasitic Losses -	Scale:1%/bit
				руке э	1-8	PercentTorque	Scare: 1%/ DIL
				Byte 6-7	1-8		Not used
					8-7	Not defined/未定义	Not used
					6-5	Not defined/未定义	Not used
				Byte 8	4-3	After Treatment Exhaust Dew Point Message - exhaust bank 1	当DSQ_stHtgNSU为1时此信号 置1,否则置0 00:Not exceeded the dew point 01:Exceeded the dew point 10:Error 11:Not available
					2-1	Not defined/未定义	
				Byte 1-4	1-8	Trip Fuel Consumption	0.5 L/bit, 0 offset
LFC				Byte 5	1-8	Total Fuel consumption Byte 1(LSB)	
燃油消耗量	0x18FEE900	on request	equest Tx	Byte 6	1-8	Total Fuel consumption Byte 2	0.5 L/bit, 0 offset
				Byte 7	1-8	Total Fuel consumption Byte 3	o. o. bit, o offset
				Byte 8	1-8	Total Fuel consumption Byte 4(MSB)	
				Byte 1-2		Fuel Rate/油耗	Scale:0.05L/h/bit
				Byte 3-4		Instantaneous Fuel Economy/ 瞬时油耗	Scale: 0.001953125Km/L/bit
LFE 燃油经济性	0x18FEF200	100ms	Tx	Byte 5-6		Average Fuel Economy/平均燃油经济性(未用)	Not used
				Byte 7		Throttle position/节气门位置(未用)	Not used
				Byte 8		Not defined/未定义	Not used
				Byte 1		Fuel Deliver y Pressure/燃油压力	Not used
				Byte 2		Extended Crankcase Blow-by Pressure/ (未用)	Not used
EFL/P1				Byte 3		Engine Oil Level/机油液位	Scale:0.4%/bit
发动机液位/压力	0x18FEEF00	EEF00 500ms	Tx	Byte 4		Engine Oil Pressure/机油压力	1、0PSCDpOutValSwt_C=0时 发送绝对值 0PSCD_pOutVal-0PSCD_p0 utValOf_C 0PSCD_pOutValOf_C=0



							WEICHAI POWER	
				Byte 5-6 Byte 7 Byte 8	Coolar	case Pressure/曲轴箱压力(未用) nt Pressure/冷却液压力(未用) e Coolant Level/冷却液液位	2、OPSCDpOutValSwt_C=1时 发送相对值 OPSCD_pOutVal-APSCD_pV al Scale:4Kpa/bit Not used Not used	
				Byte 1	Engine 温度	e Coolant Temperature/发动机冷却水	Scale:1°C/bit Offset:-40°C	
ET1				Byte 2	Fuel 7	Semperature/燃油温度	Scale:1°C/bit Offset:-40°C	
发动机温度	0x18FEEE00	0 1000ms	Tx	Byte 3-4	Engine	e Oil Temperature /机油温度	Scale:0.03125℃/bit Offset:-273℃	
				Byte 5-6	Turbo 用)	Oil Temperature/增压器机油温度(未	Not used	
				Byte 7-8	Engine	e Intercooler Temperature/ (未用)	Not used	
		00 1000ms		Byte 1-6	Not de	fined/未定义	Not used	
VehPow 整车电源	0x18FEF700		Tx	Byte 7	Batter	ry voltage LSB/电瓶电压(低字节)	Scale:0.05/bit Offset:0	
登干 化你				Byte 8		ry voltage MSB/电瓶电压(高字节)	Scale:0.05/bit Offset:0	
				Byte 1	Total 运行时	engine hours-Byte1(LSB)/发动机累计 间		
				Byte 2-3	Total 行时间	engine hours-Byte2-3/发动机累计运 J	Scale:0.05h/bit	
EngHrRev	0x18FEE500	on request	Tx	Byte 4	Total 计运行	engine hours -Byte4(MSB) /发动机累 时间		
发动机运行时间	OXIOLEEGOO	on request	1 1 1	Byte 5	动机累	engine revolutions-Byte1(LSB)/发 计转速	Not used	
				Byte 6-7	累计转		Not used	
				Byte 8		engine revolutions-Byte4(MSB) /发 计转速	Not used	



							WEICHAI POWER
				Byte 1		Not defined/未定义,一直为FF	Not used
				Byte 2		boost pressure-atmosphere pressure/相对 增压压力	Scale:2kPa/bit
				Byte 3		Intake manifold temperature/ 进气温度	Scale:1℃/bit Offset:-40℃
INCON 发动机进气条件	0x18FEF600	1000ms	Tx	Byte 4		Air inlet pressure (absolute boost pressure)/绝对增压压力	Scale:2kPa/bit
火幼 机过 (录目				Byte 5		Air filter differential pressure/空滤器 压差(未用),一直为0xFF	Not used
				Byte 6-7		Exhaust gas temperature/排气温度(未用), 一直为0xFFFF	Not used
				Byte 8		Coolant filter differential temperature/ 冷却器温差 (未用)	Not used
DM1/DM2 (SINGLE) 0x18FECA00		Tx	Byte 1	8-7	Malfunction Indictor Lamp State/MIL 灯状态	00 Slow Flash (1 Hz, 50% duty cycle) 01 Fast Flash (2 Hz or faster, 50% duty cycle) 10 Class C DTC (for WWH OBD discriminatory display systems, not applicable for other 0BD non-discriminatory display systems) 11 Unavailable / Do Not Flash	
	0x18FECB00	on request			6-5	Red Stop Lamp State /红色停止灯状态	00 Lamp Off 01 Lamp On
					4-3	Amber Warn Lamp State/环境警告灯状态	00 Lamp Off 01 Lamp On
					2-1	Protect Lamp State/保护灯状态(不使用, 设为0x11)	Not used
				Byte 2		Reserved /保留	
				Byte 3		SPN 第一字节	
			Byte 4		SPN 第二字节		



							WEICHAI POWER
				ъ . г	8-6	SPN MSB	
				Byte 5	5-1	FMI 码	
					8	SPN 转换模式,设为0	
				Byte 6	7 1	Occurrence count for faults, limited to	
					7-1	128/当前故障计数	
				Byte 7		Not defined/未定义	
				Byte 8		Not defined/未定义	
				Byte 1		Control Byte/控制字节	
DM1 / DM0 DAM		DM1: 1000ms		Byte 2		Total messages size, number of Bytes/总 信息字节数(低字节)	
DM1/ DM2 BAM 当前/历史故障信	0x18ECFF00	DM2:	Tx	Byte 3		Total messages size, number of Bytes/总 信息字节数(高字节)	
息通告		On request		Byte 4		Total number of packets/总包数	
				Byte 5		Reserved /保留,设为FF	
				Byte 6-8		PGN, DM1 为CAFE00, DM2 为CBFE00	
				Byte 1		Package identification ,set to 0x 01	
				Byte 2		Diagnostic lamp	
		DM1: 50ms		Byte 3		Reserved , set to 0x FF	
DM1/DM2 PACK 1	0x18EBFF00	DM1: Soms	Tx	Byte 4		Diagnostic trouble code#1(Byte1)	
JMI/ DMZ I ACK I	OX TOEDI TOO	on request	1X	Byte 5		Diagnostic trouble code#1(Byte2)	
		on request		Byte 6		Diagnostic trouble code#1(Byte3)	
				Byte 7		Diagnostic trouble code#1(Byte4)	
				Byte 8		Diagnostic trouble code#2(Byte1)	
				Byte 1		Package identification ,set to 0x 02	
				Byte 2		Diagnostic trouble code#2(Byte2)	
		DM1: 50ms		Byte 3		Diagnostic trouble code#2(Byte3)	
OM1/DM2 PACK 2	0x18EBFF00	DM1: Johns DM2:	Tx	Byte 4		Diagnostic trouble code#2(Byte4)	
JMI/ DMZ I NOR Z	OXIOLDITOO	on request	11	Byte 5		Diagnostic trouble code#3(Byte1)	
		on request		Byte 6		Diagnostic trouble code#3(Byte2)	
				Byte 7		Diagnostic trouble code#3(Byte3)	
				Byte 8		Diagnostic trouble code#3(Byte4)	
		DM1: 50ms		Byte 1		Package identification ,set to 0x 03	
DM1/DM2 PACK 3	0x18EBFF00	DM2:	Tx	Byte 2		Diagnostic trouble code#4(Byte1)	
		on request		Byte 3		Diagnostic trouble code#4(Byte2)	



							WEICHAI POWER
				Byte 4		Diagnostic trouble code#4(Byte3)	
				Byte 5		Diagnostic trouble code#4(Byte4)	
				Byte 1		Control Byte , set to 0x20/控制字节	
				D / 0		Total messages size , number of Bytes(low	
				Byte 2		Byte)	
DM4BAM	100		Byte 3		Total messages size, number of Bytes(high Byte)		
内存故障通告	0x18ECFF00	100ms	Tx	Byte 4		Total number of packages	
				Byte 5		Reserved for Assignment by SAE , set to 0x FF	
				Byte 6-8		PGN of the package messages ,set to 0x CDFE00	
				Byte 1		Freeze frame length/冻结帧长度	
				Byte 2		SPN 低字节	
		On request	Tx	Byte 3		SPN 第二字节	
D	0.407777			Byte 4	8-6	SPN 高字节,设为100b	
DM4 SINGLE	0x18FECD00				5-1	FMI	
					8	SPN 转换模式	
				Byte 5	7-1	故障计数,限制到126	
				Byte 6-8		Not defined/未定义	
				Byte 1		Package identification , set to 0x 01	
				_		Freeze frame length (1st DTC) /冻结帧长	
				Byte 2		度, 0x04	
				Byte 3-4		SPN number(low Byte +second Byte)	
DM4 PACK 1	0x18EBFF00	50ms	Tx	Byte 5		SPN number (MSB)+FMI	
				Byte 6		Faults status	
				_		Freeze frame length (2nd DTC) /冻结帧长	
				Byte 7		度, 0x04	
				Byte 8		SPN number	
				Byte 1		Package identification ,set to 0x 02	
				Byte 2		SPN number	
DM4 PACK 2	0x18EBFF00	50ms	Tx	Byte 3		SPN number (MSB)+FMI	
				Byte 4		Faults status	
				Byte 5		Freeze frame length (3st DTC) /冻结帧长	



					WEICHAI POWER
					度, 0x04
				Byte 6-7	SPN number
				Byte 8	SPN number (MSB)+FMI
				Byte 1	Package identification , set to 0x 03
				Byte 2	Faults status
DM4 PACK 3 0x18EBFF00	0x18EBFF00	50ms	Tx	Byte 3	Freeze frame length (4th DTC) /冻结帧长度, 0x04
				Byte 4-5	SPN number
				Byte 6	SPN number (MSB)+FMI
				Byte 7	Faults status
				Byte 1	Control Byte , set to 0x20/控制字节
				-	Total messages size , number of Bytes(low
			Byte 2	Byte), set to 0x1C	
D 0 0 DAY			Tx	Byte 3	Total messages size , number of Bytes(high Byte), SET TO 0x00
EngConf BAM 0x18ECFF	0x18ECFF00	5000ms		Byte 4	Total number of packages , set to 0x 04
发动机配置通告				Byte 5	Reserved for Assignment by SAE , set to 0x FF
				Byte 6	PGN of the package messages , set to 0x E3
				Byte 7	PGN of the package messages , set to 0x FE
				Byte 8	PGN of the package messages , set to 0x 00
				Byte 1	Package identification, set to 1
				Byte 2-3	Point 1-engine speed at idle/怠速转速 Scale:0.125rpm/bit Offset:0
EngConf PACK 1 发动机配置	0x18EBFF00	50ms	Tx	Byte 4	Point 1-percent torque at idle/怠速扭矩 Scale:1%/bit Offset:125%
				Byte 5-6	Point 2-highest possible engine speed
				Byte 7	Point 2-percent torque at highest speed
				Byte 8	Point 3-low Byte of engine speed
				Byte 1	Package identification , set to 2
D 0 0 D407 0				Byte 2	Point 3-high Byte of engine speed
EngConf PACK 2	0x18EBFF00	50ms	Tx	Byte 3	Point 3-percent torque
发动机配置		JOILS		Byte 4-5	Point 4-engine speed
				Byte 6	Point 4-percent torque



			Byte 7-8		Point 5-engine speed	
			Byte 1		Package identification ,set to 3	
			Byte 2		Point 5-percent torque	
0x18EBFF00	50ms	Tx	Byte 3-4		Point 6-engine speed	
			Byte 5-6		Byte of gain of end-speed governor	
			Byte 7-8		Reference engine torque/参考扭矩	
			Byte 1		Package identification, set to 4	
			D + 0 0		Point 7-Byte of max momentary engine	
EngConf PACK 4 发动机配置 0x18EBFF00			Byte 2-3		override speed limit	
			D		Maximum momentary engine override time	
			Byte 4		limit	
	50ms	Tv	Byte 5-8		Requested speed control , not use d/未用	
	JOINS	1 1 1				
						0000:No request
			Byte1			0101:ASR control
				14	Retarder Torque Mode	0110:Transmission control
						1010:DR control
						1110:VM control
						Not used
				78	Retarder Enable - Shift Assist Switch	Not used
			Byt o?		Actual Potardar Tarqua Paraantaga	Scale:1%/bit
0x18F0000F	100ms	Tx	by tez		Actual Retarder Forque Percentage	Offset:-125%
			D 4 0		T , 1 1 D , 1	Scale:1%/bit
			Byte3		Intended Retarder percent lorque	Offset:-125%
			Byte4	12		Not used
				34	Retarder Requesting Brake Light	Not used
			D . 5		Source Address of controlling device for	N
			Byte 5		retarder control	Not used
				+	+	
			Byte 6		Driver's Demand Retarder Percent Torque	Scale:1%/bit
	0x18EBFF00	0x18EBFF00 50ms	Ox18EBFF00 50ms Tx	0x18EBFF00 50ms Tx Byte 1 Byte 2 Byte 3-4 Byte 5-6 Byte 7-8 Byte 1 Byte 2-3 Byte 1 Byte 2-3 Byte 4 Byte 5-8 0x18EBFF00 50ms Tx Byte 4 Byte 5-8 0x18F0000F 100ms Tx Byte2 Byte3	0x18EBFF00 50ms Tx Byte 1 Byte 2 Byte 3-4 Byte 5-6 Byte 7-8 Byte 7-8 Byte 1 Byte 2-3 Byte 4 Byte 5-8 0x18EBFF00 50ms Tx Byte 4 Byte 5-8 Byte 1 Byte 5-8 Byte 4 Byte 5-8 Byte	Byte 1 Byte 2 Package identification , set to 3



				Byte 7		Retarder Switch Percent Torque	
				Byte 8		Actual Maximum Available retarder Percent	Scale:1%/bit
						Torque	Offset:-125%
					12	Engine Idle Shutdown has Shutdown Engine	Not used
				D . 1	34	Engine Idle Shutdown Driver Alert Mode	Not used
				Byte 1	56	Engine Idle Shutdown Timer Override	Not used
				78	Engine Idle Shutdown Timer State	Not used	
			D (0	16		Not used	
				Byte 2	78	Engine Idle Shutdown Timer Functio	Not used
					12	A/C High Pressure Fan Switch	Not used
				D (0	34	Refrigerant Low Pressure Switch	Not used
				Byte 3	56	Refrigerant High Pressure Switch	Not used
					78		Not used
					12		00:Lamp OFF
			Byte 4		Engine Wait to Start Lamp	01:Lamp ON	
				38			
ShutDown	0x18FEE400	1000ms	Tx		12	Engine protection system has shutdown	00:shutdown not active
				Byte 5		engine	01:shutdown active
					34	Engine Protection System Approaching Shutdown	Not used
					Г. С		N-+1
					56	Engine Protection System Timer Override	Not used
					78	Engine Protection System Timer State	Not used
				D. C.	12	Engine Protection System Configuration	Not used
				Byte 6	36		Not used
					78	Engine Protection System Configuration	Not used
					12	Engine Alarm Acknowledge	Not used
				Byte 7	34	Engine Alarm Output Command Status	Not used
				56	Engine Air Shutoff Command Status	Not used	
				D	78	Engine Overspeed Test	Not used
				Byte 8	12	Engine Air Shutoff Status	Not used
				Byte 1		Estimated percent fan speed	Scale:0.4%/bit
FanDrv	0x18FEBD00	1000ms	Tx	Byte 2	14	Fan Drive State	0000:Fan off 0001:Engine system



							WEICHAI POWER
							0010:Excessive engine air
							temp
							0011:Excessive engine oil
							temp
							0100:Excessive engine
							Coolant
							temp
							0101-1000:Not defined
							1001:manual control
							1010:Transmission
							retarder
							1011:A/C system
							1100:Timer
							1101:Engine brake
							1110:other
							1111:Not available
				Byte 3 4		Fan Speed	Scale:0.125rpm/bit
				Byte 5			Not used
				Byte 6			Not used
				Byte 7			Not used
				Byte 8			Not used
				Byte 1		Maximum Vehicle Speed Limit	1 km/h per bit, 0 offset
CCSS	0x18FEED00	on request	Tx	Byte 2		Cruise Control High Set Limit Speed	1 km/h per bit, 0 offset
				Byte 3		Cruise Control Low Set Limit Speed	1 km/h per bit, 0 offset
				Byte1	34	Engine Amber Warning Lamp Command	Not used
					78	OBD Malfunction Indicator Lamp Command	Not used
			$ _{Tx}$	Byte2	12	Engine Brake Active Lamp Command	Not used
DLCC	0x18FD0700	1000ms	1 X		56	Engine Oil Pressure Low Lamp Command	Not used
				78	Engine Coolant Temperature High Lamp	Not used	
						Command	Not used
				Byte8	78	Eng Wait Start Lamp	Not used
				Byte 1			Seeler 0 195Vm/hit
VD	0x18FEE000	100ms	Tx	Byte 2		Trip distance	Scale:0.125Km/bit Offset:0
				Byte 3			Uliset:U



							WEIGHAI POWER
				Byte 4			
				Byte 5			
				Byte 6		W 1 * 1 * 1 * .	Scale: 0.125Km/bit
				Byte 7		Vehicle distance	Offset:0
				Byte 8			
DOCUMENTO.	0.10700100			Byte 1		1	Scale: 0.3g/h/bit
DOSUUA2	0x18F02400	50ms	Tx	Byte 2		requested Urea Dosing quantity	Offset:0
				Byte 1			0.03125 C/bit
				Byte 2		SCR Catalyst Inlet temperature	Offset:-273 C
AT1UUA1	0x18FD3E00	500ms	Tx	Byte 4			0.03125 C/bit
				Byte 5		SCR Catalyst Inlet temperature	Offset:-273 C
				Byte 1			Scale:0.01L/bit
				Byte 2		Remaining quantity of reducing	Offset: 0
SCRHtrSta	0x18FE5C00	1000ms			bit0		1/bit
				Byte 3	5100	Defrost status	Offset: 0
							Scale: 4kPa/bit
				Byte 1		Relative engine oil pressure	Offset:0
					56		00 Normal
					00		01 Pre-warning
						Over coolant temperature status	11 Warning (Engine Max
						over coordin temperature status	Power is
							limited)
				Byte 2	78		Remarks:0il p VS
					10		Oil_pMinP_mp
MFD1	0x18FF0800	100ms	Tx			Engine oil pressure Status	00 Normal
MI DI	0210110000	Tooms	1 1 1			Engine off pressure status	01 Below operating range
							11 Not available
					58		0000:0ff phase (heater
					00		off, lamp
							off)
				Byte 3		Cold start heater status	0001:Pre-heating phase
				<i>D</i> , <i>c c c</i>		cora start meater status	(heater
							on, lamp on)
							0010:Stand by phase with
							Tollo. Stalle by phase with



			 			WEIGHAI POWER
						heating (heater on, lamp
						blinking),
						cranking recommended.
						0011:Stand by phase
						without
						heating (heater off, lamp
						off)
						0100:Crank with extra
						heating
						phase (heater on, lamp off)
						0101:Crank phase (heater
						off,
						lamp off)
						0110:Post heating phase
						(heater
						on, lamp off)
						0111:Heating phase end
						(heater
						off, lamp off)
						1000:After run phase
						(heater off,
						lamp off)
						1001 -1111:Not defined
				12		00:Lamp Off
			Byte 4		OBD Lamp Status	01:Lamp On
			J			10:Lamp Blinking
						11:Not Available
			Byte 5		Exhaust flap valve output	Scale: 0.4%/bit
			-			Offset:0%
			Byte 6			Not used
			Byte 7			Not used
			Byte 8	1 0		Not used
WFI	0x18FEFF00	10ms	Byte 1	12	Water in fuel indicator	00:No water present in the fuel



						WEICHAI POWER
						01:water present in the
						fuel
						10:Error Value
						11:Not available
				Byte 1		Not used
				Byte 2		Not used
				Byte 3		Not used
SWID	0x18FEDA00	on modulost	Т.,	Byte 4		Not used
SWID	UXIOFEDAGO	on request	Tx	Byte 5	ASCII value of SWId	Not used
				Byte 6		Not used
				Byte 7		Not used
				Byte 8		Not used
				Byte 1	Control Byte ,set to 0x20/控制字节	
				Byte 2	Total messages size , number of Bytes(low	
				Byte 2	Byte), set to 0x13	
				D4 - 2	Total messages size, number of Bytes(high	
EngRetCfg BAM				Byte 3	Byte), SET TO 0x00	
发动机缓速器配置	0x18ECFF0F	OF 5000ms	Tx	Byte 4	Total number of packages , set to 0x 03	
通告				Byte 5	Reserved for Assignment by SAE, set to 0x	
				byte 5	FF	
				Byte 6	PGN of the package messages , set to 0x E1	
				Byte 7	PGN of the package messages , set to 0x FE	
				Byte 8	PGN of the package messages , set to 0x 00	
				Byte 1	Package identification, set to 1	
EngRetCfg PACK 1 发动机配置	0x18EBFF0F	50ms	Tx	Byte 2	Retarder Type	FrmMng_stRetCfgTypeLoc_C 0000 Electric/Magnetic 0001 Hydraulic 0010 Cooled Friction 0011 Compression Release (Engine retarder) 0100 Exhaust 0101-1101 Not defined 1110 Other 1111 Not available



						WEICHAI POWER
					Retarder Location	O000 (Primary) Engine Compression Release Brake (Engine rpm) O001 (Primary) Engine Exhaust Brake (Exhaust pressure) O010 (Primary) Transmission Input (Engine rpm) O011 (Secondary) Transmission Output (Output Shaft rpm) O100 (Secondary) Driveline (Output Shaft rpm) O101 Trailer (Vehicle speed) O110-1101 Not defined 1110 Other 1111 Not available
				Byte 3	Retarder Control Method	1 step/bit, 0 offset
				Byte 4-5	Point 1, Retarder speed at idle	0.125 rpm/bit, 0 offset
				Byte 6	Retarder percent torque at idle	1 %/bit, -125 % offset
				Byte 7-8	Point 2, Maximum retarder speed	0.125 rpm/bit, 0 offset
				Byte 1	Package identification, set to 2	
EngRetCfg PACK 2	0.10000000			Byte 2	Retarder percent torque at maximum speed	1 %/bit, -125 % offset
发动机配置	0x18EBFF0F	50ms	Tx	Byte 3-4	Point 3, Engine speed	0.125 rpm/bit, 0 offset
				Byte 5	Point 3, Retarder percent torque	1 %/bit, -125 % offset
				Byte 6-7	Point 4, Engine speed	0.125 rpm/bit, 0 offset
				Byte 8	Point 4, Retarder percent torque	1 %/bit, -125 % offset
EngRetCfg PACK 3				Byte 1	Package identification, set to 3	
发动机配置	0x18EBFF0F	50ms	Tx	Byte 2-3	Point 5, Retarder speed at peak torque	0.125 rpm/bit, 0 offset
/X-4/1/11/11/11/11/11/11/11/11/11/11/11/11/				Byte 4-5	Reference Retarder torque	1 Nm/bit, 0 offset



Byte 6	Point 5, Retarder percent torque	1 %/bit, -125 % offset
Byte 7-8	0xFF	

10. 接收报文详细描述(Rx/Sending Messages)

	文		Parameter definition/参数定义			备注	
Name/ 报文名称	ID/ 地址	Cycle time/ 频率	Type/ 类型	Byte/字节	Bit/ 位	Parameter/参数	
RxAMCON				Byte 1-3		Not defined/未定义	Not used
环境信息接收	0x18FEF521	1000ms	Rx	Byte 4-5		Ambient air temperature/空气温度	Not used
71%目心纹纹				Byte 6-8		Not defined/未定义	Not used
					5-8	Not defined/未定义	Not used
			S Rx Byte 2-3 Wheel based vo	Byte 1	4-3	Status of parking brake/刹车状态	00:Switch not actuated 01:Switch actuated 10:Error 11:Switch status not available
				Not defined/未定义	Not used		
RxCCVS	0x18FEF121	100ms		Byte 2-3		Wheel based vehicle Speed/ 车速	Scale:0.00390625Km/h/bit Offset:0
巡航控制接收信息					8-7	Status of clutch switch/离合开关状态	00:Clutch not actuated 01:Clutch actuated 10:Error 11:Not available
				Byte 4	6-5	Status of brake switch/刹车开关 态	00:Brake not Depressed and no defect 01:Brake Depressed and no defect



								10 P 1 1 1111
								10:Brake plausibility not
								ok
								11:brake switch status not
								available
					4-1		Not defined/未定义	Not used
				Byte 5-6			Not defined/未定义	Not used
				Byte 7	8-7		Not defined/未定义	Not used
				Dy CC 1	6-1		PTO state/PTO 状态	Not used
				Byte 8			Not defined/未定义	Not used
				Byte 1 PGN LSB	Byte 2 PGN	Byte3 PGN MS I	Kind of request	
				0xCB	0xFE	0x00	DM2 Request/DM2 申请发送	
				0xCD	0xFE	0x00	DM4 Request/DM4 申请发送	
				0xD3	0xFE	0x00	DM11 Request/DM11 申请发送	
DCMDO				0x00	0xEF	0x00	STOD Request/STOD 申请发送	
PGNRQ PGN请求	0x18EA0021	On Request	Rx	0xE5	0xFE	0x00	Engine Hours Revolution/发动机运车时间申请发送	E 7
				0xE9	0xFE	0x00	Fuel Consumption/总油耗申请发送	
				0xDA	0xFE	0x00	Software identification/软件版本申请发送	
				0xEB	0xFE	0x00	Component identification/组件确认申请发送	
				0xF0	0xFF	0x00	Not defined/未定义	
					8-7	Not	defined/未定义	
								00:Highest Priority
					6-5	0ver	ride control mode priority/override	01:High priority
					0-9	控制	模式优先级	10:Medium priority
TSC1_AE								11:Low priority
扭矩/速度控制	0x0C00000B	10ms	Rx	Byte 1				00:Transient Optimized for
(刹车系统)								driveline disengaged and
					4-3	Requ	ested speed control conditions/请求	non-lockup conditions
					4-3	速度	控制条件	01:Stability Optimized for
								driveline disengaged and
								non-lockup conditions



							WEICHAI POWER
							10:Stability Optimized for
							driveline engaged and/or
							in
							lockup condition 1
							11: Stability Optimized
							for
							driveline engaged and/or
							in
							lockup condition 2
							00:0verride disabled
							01:Speed control
					2-1	Override control modes/override 控制模式	10:Torque control
							11:Speed/torque limit
							control
				D . 0.0		Requested speed/speed limit/ 目标转速/转	Scale: 0. 125rpm/bit
				Byte 2-3		速限制	Offset:0
				Dert o 4		Requested torque/torque limit/目标扭矩/	Scale:1%/bit
				Byte 4		扭矩限制	Offset:-125%
				Byte 5-8		Not defined/未定义	Not used
	0x0CF00A89	50ms	Rx	Byte 1		EGR mass flow rate value /EGR 流量 (LSB)	Not used
EngGsFlowRt				Byte 2		EGR mass flow rate value /EGR 流量 (MSB)	Not used
发动机气体流量				Byte 3-4		Inlet air mass flow rate vale, Not Used 未 用	Not used
				Byte 5-8		Not defined/未定义	Not used
					8-7	Not defined/未定义	Not used
							00:Highest Priority
					6-5	Override control mode priority/override	01:High priority
TCC1 TE					0-9	控制模式优先级	10:Medium priority
TSC1_TE	0.0000000	1.0	D	D 4 1			11:Low priority
扭矩/速度控制	0x0C000003	10ms	Rx	Byte 1			00:Transient Optimized for
(传动系统)							driveline disengaged and
					4-3	Requested speed control conditions/请求	non-lockup conditions
						速度控制条件	01:Stability Optimized for
							driveline disengaged and
	L	1	1	_1		<u> </u>	100



_						T	WEICHAI POWER
							non-lockup conditions 10:Stability Optimized for
							driveline engaged and/or
							in
							lockup condition 1
							11: Stability Optimized
							for
							driveline engaged and/or
							in
							lockup condition 2
							00:0verride disabled
							01:Speed control
					2-1	Override control modes/override 控制模式	10:Torque control
							11:Speed/torque limit
							control
				Byte 2-3		Requested speed/speed limit/ 目标转速/转	Scale:0.125rpm/bit
				byte 2 3		速限制	Offset:0
				Byte 4		Requested torque/torque limit/目标扭矩/	Scale:1%/bit
						扭矩限制	Offset:-125%
				Byte 5-8		Not defined/未定义	
					8-7	Not defined/未定义	
						Override control mode priority/override 控制模式优先级	00:Highest Priority
					6-5		01:High priority
					0 3		10:Medium priority
							11:Low priority
							00:Transient Optimized for
TSC1_DE							driveline disengaged and
扭矩/速度控制	0x0C00000B	10ms	Rx	Byte 1			non-lockup conditions
(缓速器系统)							01:Stability Optimized for
						Requested speed control conditions/请求	driveline disengaged and
					4-3	速度控制条件	non-lockup conditions
							10:Stability Optimized for
							driveline engaged and/or
							in
							lockup condition 1
							100Map Condition 1



							WEIGHAI POWER
							11: Stability Optimized
							for
							driveline engaged and/or
							in
							lockup condition 2
							00:0verride disabled
							01:Speed control
					2-1	Override control modes/override 控制模式	10:Torque control
							11:Speed/torque limit
							control
				Byte 2-3		Requested speed/speed limit/ 目标转速/转	Scale: 0.125rpm/bit
				byte 2-3		速限制	Offset:0
				Byte 4		Requested torque/torque limit/目标扭矩/	Scale:1%/bit
				byte 4		扭矩限制	Offset:-125%
				Byte 5-8		Not defined/未定义	Not used
					8-7	Not defined/未定义	Not used
					6-5		00:Highest Priority
						Override control mode priority/override 控制模式优先级	01:High priority
							10:Medium priority
							11:Low priority
							00:Transient Optimized for
							driveline disengaged and
							non-lockup conditions
TSC1 PF							01:Stability Optimized for
_	0x0C000024	10ms	Rv	Byto 1			driveline disengaged and
	0.00000021	Tomo	IXX	Dy cc 1			non-lockup conditions
						Requested speed control conditions/造求	10:Stability Optimized for
					4-3		driveline engaged and/or
						(本/文/工門本日	in
							11: Stability Optimized
							for
							driveline engaged and/or
							in
					1		lockup condition 2
TSC1_PE 扭矩/速度控制 (PTO 系统)	0x0C000024	10ms	Rx	Byte 1	4-3	Requested speed control conditions/请求速度控制条件	01:Stability Optimized for driveline disengaged and non-lockup conditions 10:Stability Optimized for driveline engaged and/or in lockup condition 1 11: Stability Optimized for driveline engaged and/or in



							WEICHAI POWER
					2-1	Override control modes/override 控制模式	00:0verride disabled 01:Speed control 10:Torque control 11:Speed/torque limit control
				Byte 2-3		Requested speed/speed limit/ 目标转速/转速限制	Scale:0.125rpm/bit Offset:0
				Byte 4		Requested torque/torque limit/目标扭矩/ 扭矩限制	Scale:1%/bit Offset:-125%
				Byte 5-8		Not defined/未定义	Not used
					8-7	Not defined/未定义	Not used
TSC1_VE 扭矩/速度控制 (车身系统)				Byte 1	6-5	Override control mode priority/override 控制模式优先级	00:Highest Priority 01:High priority 10:Medium priority 11:Low priority
	0x0C000021	10ms	Rx		4-3	Requested speed control conditions/请求速度控制条件	O0:Transient Optimized for driveline disengaged and non-lockup conditions O1:Stability Optimized for driveline disengaged and non-lockup conditions 10:Stability Optimized for driveline engaged and/or in lockup condition 1 11: Stability Optimized for driveline engaged and/or in lockup condition 1 11: Stability Optimized for driveline engaged and/or in lockup condition 2
					2-1	Override control modes/override 控制模式	00:0verride disabled 01:Speed control 10:Torque control 11:Speed/torque limit control



				D + C 0		Requested speed/speed limit/ 目标转速/转	Scale:0.125rpm/bit
				Byte2-3		速限制	Offset:0
				D 4 4		Requested torque/torque limit/目标扭矩/	Scale:1%/bit
				Byte 4		扭矩限制	Offset:-125%
				Byte 5-8		Not defined/未定义	Not used
					8-7	Not defined/未定义	Not used
							00:Highest Priority
					6-5	Override control mode priority/override	01:High priority
					0-9	控制模式优先级	10:Medium priority
							11:Low priority
							00:Transient Optimized for
							driveline disengaged and
						Not defined/未定义	non-lockup conditions
		50ms R					01:Stability Optimized for
				Byte 1	4-3		driveline disengaged and
							non-lockup conditions
							10:Stability Optimized for
							driveline engaged and/or
TSC1_AR	0x0C000F0B						in
扭矩限制			Rx				lockup condition 1
(刹车系统)							11: Stability Optimized
							for
							driveline engaged and/or
							in
							lockup condition 2
							00:0verride disabled
							01:Speed control
					2-1	Override control modes/override 控制模式	10:Torque control
							11:Speed/torque limit
							control
				Byte 2-3		Not defined/未定义	Scale: 0.125rpm/bit
							Offset:0
				Byte 4		Requested torque/torque limit/目标扭矩/	Scale:1%/bit
						扭矩限制	Offset:-125%
				Byte 5-8		Not defined/未定义	Not used



							WEIGHAI POWER
					8-7	Not defined/未定义	Not used
				Byte 1	6-5	Override control mode priority/override 控制模式优先级	同 TSC1_AE
TSC1 DR					4-3	Not defined/未定义	Not used
扭矩限制	0x0C000F0B	50ms	Rx		2-1	Override control modes/override 控制模式	Not used
(缓速器系统)				Byte 2-3		Not defined/未定义	Not used
				Byte 4		Requested torque/torque limit/目标扭矩/ 扭矩限制	Not used
				Byte 5-8		Not defined/未定义	Not used
					8-7	Not defined/未定义	Not used
					00:Highest Priority		
					C 5	Override control mode priority/override	01:High priority
					6-5	控制模式优先级	10:Medium priority
							11:Low priority
					00:Transient Optimized for		
						driveline disengaged and	
							non-lockup conditions
							01:Stability Optimized for
						Not defined/未定义	driveline disengaged and
							non-lockup conditions
TSC1_TR							10:Stability Optimized for
扭矩限制	0x0C000F0B	50ms	Rx	Byte 1	4-3		driveline engaged and/or
(传动系统)							in
							lockup condition 1
							11: Stability Optimized
							for
							driveline engaged and/or
							in
							lockup condition 2
							00:0verride disabled
					2-1		01:Speed control
						Override control modes/override 控制模式	10:Torque control
							11:Speed/torque limit
							control
			_	·		•	



							WEIGHAI POWER
				Byte 2-3		Not defined/未定义	Scale:0.125rpm/bit Offset:0
				Byte 4		Requested torque/torque limit/目标扭矩/	Scale:1%/bit
						扭矩限制	Offset:-125%
				Byte 5-8		Not defined/未定义	Not used
					8-7	Not defined/未定义	Not used
				6-5	Override control mode priority/override 控制模式优先级	00:Highest Priority 01:High priority 10:Medium priority 11:Low priority	
TSC1_VR 扭矩限制 (车身系统)	0x0C000F21	50ms	Rx	Byte 1	4-3	Not defined/未定义	00:Transient Optimized for driveline disengaged and non-lockup conditions 01:Stability Optimized for driveline disengaged and non-lockup conditions 10:Stability Optimized for driveline engaged and/or in lockup condition 1 11: Stability Optimized for driveline engaged and/or in lockup condition 2
					2-1	Override control modes/override 控制模式	00:0verride disabled 01:Speed control 10:Torque control 11:Speed/torque limit control
				Byte 2-3		Not defined/未定义	Scale:0.125rpm/bit Offset:0
				Byte 4		Requested torque/torque limit/目标扭矩/ 扭矩限制	Scale:1%/bit Offset:-125%



				Byte 5-8		Not defined/未定义	Not used
					8-7	T50 switch/T50 开关, 01 为激活/按下	Not used
				Byte1	6-3	Multi-state switch/多态开关	Not used
					2-1	Not defined/未定义	Not used
					8-7	Cruise control, minus switch/巡航"-"键, 01为激活/按下	Not used
				Byte2	6-5	Cruise control, plus switch/巡航"+"键, 01为激活/按下	Not used
				by tez	4-3	Cruise control, resume switch/巡航"恢复" 键,01为激活/按下	Not used
					2-1	Cruise control, stop switch/巡航"停止"键, 01为激活/按下	Not used
					8-7	Not defined/未定义	Not used
DEC1	0**0CEE0421	20	D	Byte 3	6-5		Not used
开关控制器1	0x0CFF0431	20ms	Rx	byte 5	4-3		Not used
					2-1		Not used
				Byte 4	8-1		Not used
					8-7	Not defined/未定义	Not used
				Byte 5	6-5	A/C switch/空调开关,01为激活/按下	Not used
					4-3	Neutral gear position/空档开关,01为激活 /按下	00:Neutral switch OFF 01:Neutral switch ON 10:not available 11:not available
					2-1	Not defined/未定义	Not used
				Byte 6			Not used
				Byte 7			Not used
				Byte 8		Not defined/未定义	Not used
/hee1SpeedInfo				Byte 1		Front axle speed, low Byte/前轴 速度,低字节	1/256 km/h per bit,
(EBC2) 轮速信息	0x18FEBF0B	50ms	50ms Rx	Byte 2		Front axle speed, high Byte/前轴速度,高字节	0 offset
				Byte 3-8		Not defined/未定义	Not used
DM13	0x18DFFF27	1000ms	Rx	Byte 1	8-7	Current data link/当前数据链接	
通讯网络选择	OXTODITI'I'41	TOOUIIS	IXX	Dyte I	6-3	Not defined/未定义	



							WEICHAI POWER
					2-1	J1939 network #1, primary vehicle	
						network/网络#1联入CANB 控制器	
				Byte 2	8-7	J1939 network # 2, 联入CANA 和CANC 控制器	
				<i>B</i> , cc 2	6-1	Not defined/未定义	
				Byte 3		Not defined/未定义	
				Byte 4	8-5	Hold signal/悬挂信号	
				Dyte 4	4-1	Not defined/未定义	
				Byte 5-8		Not defined/未定义	
					8-7	Not defined/未定义	Not used
					6-5	Shift in process/换挡过程	00:Gear shift not Active
					0 5	SHITT III process/ 1×1312/1±	01: Gear shift Active
							00:Torque Converter lockup
						is	
				Byte 1	4-3	Torque converter lockup engaged/扭矩转 换锁定/结合	disengaged
							01: Torque Converter
							lockup is
						engaged	
				Byte 2-3	2-1	Driveline Engaged	00:Driveline is Disengaged
						ziiioiiii ziigagoo	01:Driveline is engaged
ETC1	0x0CF00203	10ms	Rx			Output shaft speed(gearbox output speed)	Scale:0.125rpm/bit
电子传动控制	0.0001 00203	TOIRS	IXA	-			Offset:Orpm
				Byte 4		Percent Clutch Slip	0.4 %/bit, 0 offset
					8-5	Not defined/未定义	Not used
					4-3	Momentary engine overspend enable/发动机 瞬时超速使能	Not used
							00: Momentary overspeed
				Byte 5			request
					2-1		not allowed
					$ z^{-1} $		01: Momentary overspeed
						request	
							allowed
				Byte 6-8		Not defined/未定义	Not used
HRVD	0-10EEC1EE	1000ms	Der	Byte 1		HRVD-Low Byte1	Not used
高分辨率行车里程	0x18FEC1EE	TUUUMS	Rx	Byte 2		HRVD-Low Byte2	Not used



				Byte 3		HRVD-high Byte1	Not used
				Byte 4		HRVD-high Byte2	Not used
				Byte 5-8		Not defined/未定义	Not used
				Byte 1-4		Not defined/未用	Not used
				Byte 5-6		Tachograph output shaft speed /转速表输 出	0.125rpm/bit
TC01 车速信息	0x0CFE6CEE	50ms	Rx	Byte 7		Tachograph vehicle speed-LSB /转速表车速低字节	0.00200625 /1/1-/1-:+
				Byte 8		Tachograph vehicle speed-MSB /转速表车速高字节	0.00390625/km/h/bit
		x18F0010B 20ms	Rx	Byte 1	8-7	EBS brake switch /电子刹车系统开关	00:Brake not depressed and not defect 01:Brake depressed and no defect 10:Brake plausibility NOT OK 11:Brake switch status not
					6-5	Not defined/未定义	available
EBC1 电子刹车控制器# 0x18F00 1	0x18F0010B				4-3	ASR brake control active/ASR 刹车控制 激活	00:ASR brake control passive but installed 01:ASR brake control active 10:ASR brake control Not OK 11:Not available
					2-1	ASR engine control active/ ASR 控制发动机状态激活	00:ASR engine control passive but installed 01:ASR engine control active 10:ASR engine control not 0K 11:Not availble



				Byte 2		Brake Pedal Position /未用	Not used
				Byte 3		Status_EBC2/未用	Not used
					8-7	Measured_aux_1/未用	Not used
							00:0FF, No shut off request
						 Auxiliary engine shut down/辅助发动机停	01:0N, shut off request
				Byte 4	6-5	机	active
						ν σ	10:Error
							11:Not available
					4-1	Not defined /未用	Not used
				Byte 5		Engine retarder selection/未用	Not used
							00:0ff
					8-7		01:0n
							10:reserved
							11:Take no action
					6-5	the ABS/EBS amber/yellow optical warning signal	00 Off
							01 On
				Byte 6			10 Reserved
							11 Take no action
					4-3	EBS red optical warning signal	00 Off
							01 On
							10 Reserved
							11 Take no action
					2-1		Not used
				Byte 7	8-1	Not defined/未用	Not used
				Byte 8	8-1	Not defined/未用	Not used
					14	Retarder Torque Mode	Not used
				Byte 1	56	Retarder Enable - Brake Assist Switch	Not used
					78	Retarder Enable - Shift Assist Switch	Not used
PDC1DD	0.10000010	100		Byte 2		Actual Retarder Percent Torque	Not used
ERC1DR	0x18F00010	100 ms	Rx	Byte 3		Intended Retarder Percent Torque	Not used
				Byte 4	12	Engine Coolant Load Increase	Not used
				2,001	34	Retarder Requesting Brake Light	Not used
				Byte5		Source Address of Controlling Device for	Not used



_							
						Retarder Control	
				Byte6		Drivers Demand Retarder Percent Torque	Not used
				Byte7		Retarder Switch Percent Torque	Not used
				Byte8		Actual Maximum Available Retarder Percent Torque	Not used
				Byte 1		Second	Not used
				Byte 2		Minute	Not used
				Byte 3		Hour	Not used
m* D :	0.10000000	1000	D.	Byte 4		Month	Not used
TimeDate	0x18FEE6EE	1000 ms	Rx	Byte5		Day	Not used
				Byte6		Year	Not used
			Byte7		Local minute offset	Not used	
				Byte8		Local hour offset	Not used
				Byte 1		Selected gear	Scale:1 gear/bit Offset:-125
ETICO		D	Byte 2		Actual gear ratio low byte	Scale:0.001/bit	
ETC2	0x18F00503	100ms	Rx	Byte 3		Actual gear ratio high byte	Offset:0
				Byte 4		Current gear	cale:1 gear/bit Offset:-125
					12	Transmission Current Range Display Blank State	Not used
					34	Transmission Service Indicator	Not used
				Byte 1	56	Transmission Requested Range Display Blank State	Not used
ETC7	0x18FE4A03	100ms	Rx		78	Transmission Requested Range Display Flash State	Not used
					12	Transmission Ready for Brake Release	Not used
					34	Active Shift Console Indicator	Not used
				Byte2	56	Transmission Engine Crank Enable	00 - Cranking disabled; 01 - Cranking enabled; 10 - Error 11 - Not available



					78	Transmission Shift Inhibit Indicator	Not used
					12	Transmission Mode 4 Indicator	Not used
				D 4 0	34	Transmission Mode 3 Indicator	Not used
				Byte 3	56	Transmission Mode 2 Indicator	Not used
					78	Transmission Mode 1 Indicator	Not used
				Byte 1-2		Aftertreatment 1 outlet NOx	Scale:0.05ppm/bit Offset:-200
				Byte3- 4		Aftertreatment 1 outlet %02	Scale:0.000514%/bit Offset:-12%
AT101 0x18F00F52					12	Aftertreatment 1 outlet Gas Sensor Power in range	00 - Not in range 01 - In range
			Dart o E	34	Aftertreatment 1 outlet Gas Sensor at temperature	10 - Error 11 - Not available	
			Byte 5	56	Aftertreatment 1 outlet NOx reading stable	00 - Not stable	
	0x18F00F52	00F52 50 ms	Rx		78	Aftertreatment 1 outlet Wide-Range %02 reading stable	01 - Stable 10 - Error 11 - Not available
				Byte6	15	Aftertreatment 1 outlet Gas Sensor Heater preliminary FMI	Not used
					67	Aftertreatment 1 outlet NOx Sensor Heater Control	Not used
				Byte 7	15	Aftertreatment 1 outlet NOx Sensor preliminary FMI	Not used
				Byte 8	15	Aftertreatment 1 outlet 02 Sensor preliminary FMI	Not used
CM1	0x18E00021	1000ms	Rx	Byte 1		Requested Percent Fan Speed	0.4 %/bit, 0 offset
				Byte 2-3			Not used
1 - + D	01000000	10	D	Byte 1		1 ::	E+0^ 10
ActDos	0x18F0233D	10ms	Rx	Byte 2		real injected Urea quantity	Factor:2 ⁻¹⁰
				Byte 1		Washer Fluid Level (Not evaluated by EDC)	Not used
DashDspl 0x18FEFC17	1000ms	Rx	Byte 2		Fuel Level	0.4 %/bit, 0 offset	
		2000		Byte 3			Not used



				Byte 4			Not used
				Byte 5			Not used
				Byte 6			Not used
				Byte 7			Not used
				Byte 8			Not used
					8-7	Malfunction Indictor Lamp State/MIL 灯状态	Everest_swtModeEn_C=1, 表示ECU匹配即插即用DCU,以
				D / 1	6-5	Red Stop Lamp State /红色停止灯状态	下标定量为DCU发送的故障
				Byte 1	4-3	Amber Warn Lamp State/环境警告灯状态	码,
					2-1	Protect Lamp State/保护灯状态(不使用, 设为0x11)	Com_stLampDcu1_C=0x210 D00;
			Byte 2		Reserved /保留	Com_stLampDcu2_C=0xFA0	
				Byte 3		SPN 第一字节	F00;
DM1DCU (SINGLE)	DM1DCU (SINGLE) 0x18FECA3D 1000ms	1000ms	Tx	Byte 4		SPN 第二字节	Com_stLampDcu3_C=0xE21
			D / 5	8-6	SPN MSB	300;	
				Byte 5	5-1	FMI 码	Com_stLampDcu4_C=0xFB0 F00;
					8	SPN 转换模式,设为0	
				Byte 6	7-1	Occurrence count for faults, limited to 128/当前故障计数	Com_numDM1DCUFMI1_C=0; Com_numDM1DCUFMI2_C=0;
				Byte 7		Not defined/未定义	Com_numDM1DCUFM12_C=0; Com_numDM1DCUFM13_C=0;
				Byte 8		Not defined/未定义	Com_numDM1DCUFMI4_C=0;
				Byte 1		Control Byte/控制字节	
				Byte 2		Total messages size, number of Bytes/总信息字节数(低字节)	
DM1DCU BAM 当前故障信息	0x18ECFF3D	1000ms	Tx	Byte 3		Total messages size, number of Bytes/总信息字节数(高字节)	
				Byte 4		Total number of packets/总包数	
				Byte 5		Reserved /保留,设为FF	
				Byte 6-8		PGN, DM1 为CAFE00, DM2 为CBFE00	
				Byte 1		Package identification , set to 0x 01	
DM1DCU PACK 1	0x18EBFF3D	50ms	Tx	Byte 2		Diagnostic lamp	
				Byte 3		Reserved , set to 0x FF	



				Byte 4	Diagnostic trouble code#1(Byte1)
				Byte 5	Diagnostic trouble code#1(Byte2)
				Byte 6	Diagnostic trouble code#1(Byte3)
				Byte 7	Diagnostic trouble code#1(Byte4)
				Byte 8	Diagnostic trouble code#2(Byte1)
			Byte 1	Package identification , set to 0x 02	
			Byte 2	Diagnostic trouble code#2(Byte2)	
			Byte 3	Diagnostic trouble code#2(Byte3)	
DM1DCU DACK O	010EDEE2D	Γ0	Tx	Byte 4	Diagnostic trouble code#2(Byte4)
DM1DCU PACK 2	0x18EBFF3D	50ms		Byte 5	Diagnostic trouble code#3(Byte1)
				Byte 6	Diagnostic trouble code#3(Byte2)
				Byte 7	Diagnostic trouble code#3(Byte3)
				Byte 8	Diagnostic trouble code#3(Byte4)
				Byte 1	Package identification , set to 0x 03
			50ms Tx	Byte 2	Diagnostic trouble code#4(Byte1)
DM1DCU PACK 3	0x18EBFF3D	50ms		Byte 3	Diagnostic trouble code#4(Byte2)
				Byte 4	Diagnostic trouble code#4(Byte3)
				Byte 5	Diagnostic trouble code#4(Byte4)



11. 报文配置

报文配置信息包括报文ID,报文周期调度模式,报文周期调度次数,报文超时调度次数,报文使能标志。

报文发送或接收周期=报文周期调度模式*报文周期调度次数;

报文发送或接收超时周期=报文发送或接收周期*报文超时调度次数;

例如:

EEC1报文配置列表

EEC1报文ID	0xCF00400	Frm_TxEEC1MsgID_C
EEC1报文周期调度模式	10ms	Frm_TxEEC1SchedMode_C
EEC1报文周期调度次数	1	Frm_TxEEC1SchedCount_C
EEC1报文超时调度次数	4	Frm_TxEEC1T0Count_C
EEC1报文使能标志	1(enbale), 0(disable)	Frm_TxEEC1MsgEnB1_C

EEC1报文ID= Frm TxEEC1MsgID C=0xCF00400;

EEC1报文周期= Frm_TxEEC1SchedMode_C* Frm_TxEEC1SchedCount_C=10ms*1=10ms;

EEC1报文超时周期= EEC1报文周期* Frm TxEEC1TOCount C=10ms*4=40ms;

EEC1报文使能标志= Frm_TxEEC1MsgEnB1_C=1; 发送报文

各发送报文配置,*表示各报文名称

*报文ID	*	Frm_Tx*MsgID_C
*报文周期调度模式	*ms	Frm_Tx*SchedMode_C
*报文周期调度次数	*	Frm_Tx*SchedCount_C
*报文超时调度次数	*	Frm_Tx*1T0Count_C
*报文使能标志	1(enbale), 0(disable)	Frm_T*MsgEnBl_C

各接收报文配置,*表示各报文名称

*报文ID	*	Frm_Rx*MsgID_C
*报文周期调度模式	*ms	Frm_Rx*SchedMode_C
*报文周期调度次数	*	Frm_Rx*SchedCount_C
*报文超时调度次数	*	Frm_Rx*1T0Count_C
*报文使能标志	1(enbale), 0(disable)	Frm_Rx*MsgEnB1_C



*表示各报文名称,如下表

报文配置标定列表						
Tx			Rx			
INDEX	MESSAGE		INDEX	MESSAGE		
0	EEC1		0	AMCON		
1	EEC2		1	WSI		
2	OEM_TF		2	HRVD		
3	OEM_TE		3	DashDspl		
4	OEM_TD		4	TSC1_VR		
5	OEM_TC		5	TSC1_TR		
6	OEM_TB		6	TSC1_DR		
7	ERC1		7	TSC1_AR		
8	TxVD		8	TSC1_VE		
9	FLECO		9	TSC1_PE		
10	CCVS		10	TSC1_DE		
11	DOSUUA2		11	TSC1_TE		
12	AT1UUA1		12	CCVS		
13	MFDA		13	TSC1_AE		
14	OEM_T7		14	TimeDate		
15	OEM_T6		15	TC01		
16	GPRSCMD		16	ETC7		
17	OEM_T4		17	ETC2		
18	OEM_T3		18	ETC1		
19	SCRHtrSta		19	EngTemp		
20	AdB1ue		20	ERC1DR		
21	EEC3		21	EGF1		
22	INCON		22	EBC1		
23	EngPress		23	AT10GC2		
24	ShutDown		24	AT10GC1		
25	FanDrv		25	AT1IGC2		



26	EngTemp		26	AT1IGC1		
27	TI1		27	AT1IG1		
28	AMBCON		28	AT10G1		
29	VehPow		29	DM13		
30	EngCfg		30	DM1DCU		
31	WFI		31	TRF1		
32	DM1		32	GPS03		
33	CmpntID		33	ActDos		
34	EngHrRev		34	OEM_2		
35	SWID		35	AT1SD1		
36	F1Co		36	DEC1		
37	DM4		37	GPS01		
38	DM2		38	GPS02		
39	EEC5		39	TSC1_DD		
40	DM6		40	OEM_6		
41	DM12		41	OEM_5		
42	EngRetCfg		42	CM1		
43	DM3		43			
44	DM11		44			
45	DM19		45	<u> </u>		
46	DLCC		46			
47	CCSS		47			
48	MFD1		48			
每个担立的却时式字类粉件提对应的DEC(DEC EDMMIC*DIC						

每个报文的超时或字节数错误对应的DFC(DFC_FRMMNG*DLC、DFC_FRMMNG*T0)的使能与屏蔽,通过标定DFC_DisblMsk_CA[Index]来实现。bit15位标1代表屏蔽,标0代表使能,Index为该DFC的Index值,可参考DSM列表。

注意Frm_T*MsgEnB1_C、Frm_Rx*MsgEnB1_C是用来进行报文接收的使能与屏蔽,即通过标定这两个量可以接收或者不接收总线上的报文,通过标定DFC Disb1Msk CA[Index]可以实现报文对应DFC的使能与屏蔽。