J1939 FRAME FORMAT

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** | | **22** | **23** | **24** | **25** | **26** | **27** | **28** | **29** | | **30** | **…** | **32** |  |
| **P** | | | **EDP** | **DP** | **PF** | | | | | | | | **PS** | | | | | | | | | **SA** | | | | | | | | | **DATA FIELD** | | | | |
| **3** | | | **1** | **1** | **8** | | | | | | | | **8** | | | | | | | | | **8** | | | | | | | | | **0 - 64** | | | | |

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| **Extended Data Page bit 25 CAN ID bit 25** | **Data Page bit 24 CAN ID bit 24** | **Description** |
| **0** | **0** | SAE J1939 page 0 PGNs |
| **0** | **1** | SAE J1939 page 1 PGNs |
| **1** | **0** | SAE J1939 reserved |
| **1** | **1** | ISO 15765-3 defined |

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| --- | --- | --- | --- | --- |
| **DP** | **PF(HEX)** | **PS(HEX)** | **Description** | **Example** |
| 0 | $0 - $EF | DA | PDU 1 format - **2**(DP)x**240**(PF) = **480 PGNs** | 61184 (**EF00**)- Proprietary A PGN |
| 1 | $0 - $EF | 126720(**1EF00**) - Proprietary A2 PGN |
| 0 | $F0 - $FF | GE | PDU 2 format - **2**(DP)x**16**(PF)x**256**(PS) = **8192 PGNs** |  |
| 1 | 65280(**FF00**) – 65535(**FFFF**) - Proprietary B PGN |

**Definitions:** P is Priority,

EDP is Extended Data Page,

DP is Data Page,

PDU is Protocol Data Unit

PF is PDU Format,

PS is PDU Specific, and

DA is Destination address

GE is Group Extension

SA is Source Address