**DMXS – DMX512 Stream**

**32-Bit Header file with optional 16-Bit CRC checksum**

**Stream-Infos**

**Last DMS-Frame**

**First DMS-Frame**

**…**

**ID-Data  
(128 Byte)**

**DMX512-Data**

**16-Bit CRC**

**32-Bit Header**

**DMX512-Data**

**16-Bit CRC**

**32-Bit Header**

|  |  |  |
| --- | --- | --- |
| **Position** | **Aufgabe/Beschreibung** | **Länge in Bit** |
| A | Frame-SYNC (all Bits must be set to 1) | 12 |
| B | Framerate (0=50Hz/20ms, 1=10Hz/100ms) | 1 |
| C | Stream-Type  1=Constant Channel Number (complete Universe)  0=Variable Channel Number (only value changes) | 1 |
| D | Compressed Stream | 1 |
| E | Protection (1=Protected by 16 Bit CRC) | 1 |
| F | Channelcount | 16 |
| (G) | CRC-data if protection-bit is set | 16 |

**ID-Tag at end of stream (128 Byte)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Position** | **Aufgabe/Beschreibung** | **Länge in Byte** | **Position (bytes)** |
| A | Tag identification. Must contain „TAG“ if tag exists | 3 | 0-2 |
| B | Title | 30 | 3-32 |
| C | Project | 30 | 33-62 |
| D | Description | 30 | 63-92 |
| E | Year | 4 | 93-96 |
| F | Comment | 30 | 97-126 |
| G | Future Use | 1 | 127 |

**Compr.  
stream**

**Stream  
type**

**Frame-SYNC  
(12Bit)**

**Prot.  
Bit**

**Frame-  
rate**

**DMX512-Data**

**Optional CRC-checksum  
(16 Bit)**

**Channelcount  
(16 Bit)**