

# Error Codes

## -Seskion GmbH-

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# Error Codes

## PSI5 Error Codes

| Error           | Error bit | Meaning                                                                                                                                                           |
|-----------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| timeslotError   | 0x01      | data frame starts before start of timeslot or ends after end of timeslot                                                                                          |
| startBitError   | 0x02      | error in requested value '00b' of startbits                                                                                                                       |
| manchesterError | 0x04      | no polarity change in mid of Manchester bit or number of bits different to configured one                                                                         |
| parityError     | 0x08      | error in parity bit or in CRC bits                                                                                                                                |
| currentError    | 0x10      | only detected if ,CurrentCheckMode' is enabled; reported if „0“-current is outside 0-upper or 0-lower limit or if „1“-current is outside 1-upper or 1-lower limit |
| noDataError     | 0x20      | no data (polarity change) within timeslot                                                                                                                         |
| bitTimeError    | 0x40      | only detected if ,ExtendedTiming' is true; the bit-times do not match the default the default tolerance of +5% and -5%                                            |

## SENT Error Codes - SENT Framing Errors

| Error                                         | Error bit | Meaning                                       |
|-----------------------------------------------|-----------|-----------------------------------------------|
| Crc Error                                     | 0x8       | Error in CRC checksum calculation             |
| Framing Error                                 | 0x4       | Unexpected signal or missing signal           |
| too many nibbles                              | 0x2       | Too many nibbles received                     |
| too less nibbles                              | 0x4       | Too less nibbles received                     |
| too long frame                                | 0x10      | Unexpected frame length                       |
| too short frame                               | 0x20      | Unexpected frame length                       |
| successive calibration pulse preferred option | 0x40      | Successive calibration pulse preferred option |
| successive calibration pulse option2 option   | 0x80      | Successive calibration pulse option2 option   |
| calibration pulse to frame length ratio       | 0x100     | Calibration pulse to frame length ratio       |
| more than 3 of 100 frames invalid             | 0x200     | More than 3 of 100 frames invalid             |
| more than 2 successive frame invalid          | 0x400     | More than 2 successive frame invalid          |
| timeout                                       | 0x800     | Timeout                                       |

## SENT Error Codes - SENT Serial Messaging

| Error         | Error bit | Meaning                             |
|---------------|-----------|-------------------------------------|
| Crc Error     | 0x8       | Error in CRC checksum calculation   |
| Framing Error | 0x4       | Unexpected signal or missing signal |

# Error Codes

## DSI Error Codes

| Error                 | Error bit | Meaning                             |
|-----------------------|-----------|-------------------------------------|
| Crc Error             | 0x80      | Error in CRC checksum calculation   |
| Chiplet Error         | 0x40      | Invalid chiplet detected            |
| Frame Timing Invalid  | 0x20      | Unexpected signal or missing signal |
| +/-5% clock deviation | 0x08      | Clock deviation by +/-5%            |

## DSI Error Codes - PDCM Verification

| Error              | Error bit | Meaning                      |
|--------------------|-----------|------------------------------|
| SID Error          | 0x8       | Unexpected SID in pdcm frame |
| KAC Error          | 0x4       | Unexpected KAC in pdcm frame |
| Frame-Length Error | 0x2       | Invalid frame                |