## CHANNEL_STATUS_1 Register Status

| Register Set | | | CHANNEL_STATUS_1 Register bit | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 10Gb Ethernet (optcical) | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 |
| Optimized | Ach | connected | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |
| | | disoconnected | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| | Bch | connected | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 |
| | | disoconnected | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 |
| Not optimized | Ach | connected | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |
| | | disoconnected | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| | Bch | connected | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |
| | | disoconnected | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |

When 10Gbit Ethernet(Optical) is disconnected CHANNEL_STATUS_1 Register Bit13, Bit11, Bit10, Bit8 status value does not change.

**Table 8-26. CHANNEL_STATUS_1**

| **Device Address: 0x1E** | **Register Address:0x000F** | **Default:0x0000** | |
|---|---|---|---|
| **Bit(s)** | **Name** | **Description** | **Access** |
| 15 | HS_TP_STATUS (XG) | Test Pattern status for High/Low/Mixed/CRPAT test patterns. Valid in 10G/1GKX modes.<br>1 = Alignment has achieved and correct pattern has been received. Any bit errors are reflected in HS_ERROR_COUNTER register (0x10)<br>0 = Alignment has not been determined | RO |
| 14 | LS_ALIGN_STATUS (RXG) | Lane alignment status<br>1 = Lane alignment is achieved on the LS side<br>0 = Lane alignment is not achieved on the LS side | RO/LL |
| 13 | HS_LOS (RXG) | Loss of Signal Indicator.<br>When high, indicates that a loss of signal condition is detected on HS serial receive inputs | RO/LH |
| 12 | HS_AZ_DONE (RXG) | Auto zero complete indicator.<br>When high, indicates auto zero calibration is complete | RO/LL |
| 11 | HS_AGC_LOCKED (RXG) | Adaptive gain control loop lock indicator.<br>When high, indicates AGC loop is in locked state | RO/LL |
| 10 | HS_CHANNEL_SYNC (RXG) | Channel synchronization status indicator.<br>When high, indicates channel synchronization has achieved | RO/LL |
| 9 | RESERVED | For TI use only. | RO/LH |
| 8 | HS_DECODE_INVALID (RXG) | Valid when decoder is enabled and during CRPAT test pattern verification. When high, indicates decoder received an invalid code word, or a 8b/10b disparity error. In functional mode, number of DECODE_INVALID errors are reflected in HS_ERROR_COUNTER register (0x10) | RO/LH |