|  |  |  |  |
| --- | --- | --- | --- |
| System Interrupts | | | |
| Mode | Timer Settings | | |
| TX | Tim2 | Pre-Scaler  (Effective Frequency) | 2-1 *(40MHz)* |
| Reload Count | 0 |
| Timer Purpose | NOT USED IN TRANSMISSION LOGIC |
| GPIO | PA15 (No Input/Output) |
| Tim3 | Pre-Scaler  (Effective Frequency) | 2-1 *(40MHz)* |
| Reload Count | 828 |
| Timer Purpose | Using Timer 3 global interrupt to force correct baud rate on DAC output. |
| GPIO | None |
| Tim4 | Pre-Scaler  (Effective Frequency) | 2-1 *(40MHz)* |
| Reload Count | 108 (Low) / 59 (High) |
| Timer Purpose | Triggers DAC for wave incrementing through wave. |
| GPIO | (No Input/Output) |
| Tim5 | Pre-Scaler  (Effective Frequency) | 2-1 *(40MHz)* |
| Reload Count | 0 |
| Timer Purpose | NOT USED IN TRANSMISSION LOGIC |
| GPIO | PA0 (No Input/Output) |
| System Interrupts | | | |
| Mode | Timer Settings | | |
| RX | Tim2 | Pre-Scaler  (Effective Frequency) | 2-1 *(40MHz)* |
| Reload Count | 4294967295 (max) |
| Timer Purpose | Output compare fires to sample decoded binary values from frequency. |
| GPIO | PA15 (No Input/Output) |
| Tim3 | Pre-Scaler  (Effective Frequency) | 2-1 *(40MHz)* |
| Reload Count | 0 |
| Timer Purpose | NOT USED IN RCEIVING LOGIC |
| GPIO | None |
| Tim4 | Pre-Scaler  (Effective Frequency) | 2-1 *(40MHz)* |
| Reload Count | 0 |
| Timer Purpose | NOT USED IN RCEIVING LOGIC |
| GPIO | None |
| Tim5 | Pre-Scaler  (Effective Frequency) | 2-1 *(40MHz)* |
| Reload Count | 4294967295 (max) |
| Timer Purpose | Output compare fires to sample ADC. |
| GPIO | PA0 (No Input/Output) |