

## REGISTER MAP

| address       | bit7                                 | bit6               | bit5                   | bit4                          | bit3                  | bit2                           | bit1                   | bit0             |
|---------------|--------------------------------------|--------------------|------------------------|-------------------------------|-----------------------|--------------------------------|------------------------|------------------|
| 0_RW<br>0x4C  | power_on<br>"0"                      | fm_en<br>"1"       | tune<br>"0"            | seek<br>"0"                   | seekup<br>"1"         | mute<br>"1"                    | rsv<br>"00"            |                  |
| 1_RW<br>0x10  | amband[4:0]<br>"00010"MW2,9K         |                    |                        |                               |                       | fmband[2:0]<br>"000"FM1,87~108 |                        |                  |
| 2_RW<br>0x4A  | rsv<br>"0"                           | ref_32kmode<br>"1" | mode3k<br>"0"          | chan[12:8]13'd2760<br>"01010" |                       |                                |                        |                  |
| 3_RW<br>0xC8  | chan[7:0]13'd2760<br>"11001000"      |                    |                        |                               |                       |                                |                        |                  |
| 4_RW<br>0x19  | usr_chan_start[7:0]<br>"8'd25"FM 50M |                    |                        |                               |                       |                                |                        |                  |
| 5_RW<br>0x32  | usr_chan_stop[7:0]<br>"8'd50"FM 70M  |                    |                        |                               |                       |                                |                        |                  |
| 6_RW<br>0xA1  | volume[5:0]<br>"101000"              |                    |                        |                               |                       |                                | line<br>"0"            | phase_inv<br>"1" |
| 7_RW<br>0xA1  | rsv<br>"1"                           | rsv<br>"0"         | De<br>"1"              | BBEN<br>"0"                   | Stereo<br>"0"         | Mono<br>"0"                    | bw[1:0]<br>"01"        |                  |
| 8_RW<br>0x58  | fm_cnr_th[1:0]<br>"01"               |                    | am_cnr_th[1:0]<br>"01" |                               | fd_th[1:0]<br>"10"    |                                | stereo_th[1:0]<br>"00" |                  |
| 9_RW<br>0x07  | rsv<br>"0000"                        |                    |                        |                               | pd_adc_vo<br>l<br>"0" | osc_en<br>"1"                  | rsv<br>"1"             | lv_en<br>"1"     |
| 10_RW<br>0x7F | rsv<br>"0111 1111"                   |                    |                        |                               |                       |                                |                        |                  |
| 11_RW<br>0xE0 | rsv<br>"11"                          |                    | space[1:0]<br>"10"     |                               | rsv<br>"0000"         |                                |                        |                  |
| 12_RW<br>0x00 | pd_adc<br>"00"                       | rsv<br>"0"         | pd_rx<br>"0"           | rsv<br>"0 0000"               |                       |                                |                        |                  |
| 13_RW<br>0x00 | rsv<br>"0"                           | st_led<br>"0"      | rsv<br>"00"            |                               | vol_pre<br>"00"       |                                | rsv<br>"00"            |                  |
| 14-19_RW      |                                      |                    |                        |                               |                       |                                |                        |                  |
| 20_R          | ST                                   | STC                | Tuned                  | readchan[12:8]                |                       |                                |                        |                  |
| 21_R          | readchan[7:0]                        |                    |                        |                               |                       |                                |                        |                  |
| 22_R          | mode3k_f                             | cnram[6:0]         |                        |                               |                       |                                |                        |                  |
| 23_R          | st_dem                               | cnrfm[6:0]         |                        |                               |                       |                                |                        |                  |
| 24_R          | pgalevel_rf[2:0]                     |                    |                        | pgalevel_if[2:0]              |                       |                                | rsv                    | lvmode           |
| 25_R          | rsv                                  |                    | vbat[5:0]              |                               |                       |                                |                        |                  |
| 26_R          | fd_num[7:0]                          |                    |                        |                               |                       |                                |                        |                  |
| 27_R          | rsv                                  | rssi[6:0]          |                        |                               |                       |                                |                        |                  |