

Serial Register Format of Power ON Initialization-D3

Follow the serial register addresses showed below to initialize the MU2400 RF transceiver. The register address 0x40[7:0] and 0x41[7:0] are used to set the device into TX or RX mode.

The values showed in table are for the condition listed below:

- Date Rate = 1Mbps
- Xtal Frequency = 12MHz
- TX/RX Buffer Mode
- Package Length = 8 bytes
- Syn. Length = 4 bytes
- Disable Star Network

Register Address	Initialization Register		Description
	TX	RX	
0x4E		0x02	
0x4D		0x01	
0x42		0x98	
0x43		0xC4	
0x44		0x08	
0x45		0x10	
0x46		0x09	
0x47		0x11	
0x48		0x01	
0x49		0x8A	
0x4A		0x27	
0x4B		0x00	
0x4C		0x06	
0x50		0x00	
0x51		0x11	
0x52		0x22	
0x53		0x33	
0x54		0x44	
0x55		0x55	
0x56		0x66	
0x57		0x77	
0x58		0x08	
0x00		0xE5	
0x01		0x84	
0x02		0x00	

0x03	0xC6	
0x04	0x00	
0x05	0x40	
0x06	0x5D	
0x07	0x18	
0x08	0x40	
0x09	0x18	
0x0A	0x47	
0x0B	0x0B	
0x0C	0xE0	
0x0D	0x4F	
0x0E	0x11	
0x0F	0x1C	
0x20	0xAD	
0x21	0x64	
0x22	0x00	
0x23	0xC3	
0x24	0xBD	
0x25	0xA2	
0x26	0x1A	
0x27	0x09	
0x28	0x00	
0x29	0xB8	
0x2A	0x71	
0x2B	0x06	
0x2C	0x80	
0x2D	0x1A	
0x2E	0x09	
0x2F	0x64	
0x30	0xC0	
0x31	0x00	
0x32	0x40	
0x33	0x3B	
0x00	0xA7	
0x32	0x4A	
0x00	0xE5	
0x0E	0x91	
0x40	0x51	
0x41	0x81	

0x0C	0xC0	
0x02	0x80	
0x04	0x4A	
0x05	0xDA	
0x06	0xFA	
After waiting 250uS, MCU continues reading 0X4B[5:0] 5times.		
0x4A	"0x4B (Max)-4	Select maximum 0x4B value and minus 4, then write this result into 0x4A
0x05	0x40	
0x02	0x00	
0x0C	0xE0	

RF Status Indication

RF Status indication	R07[6]	R2E[5]
RSSI[5:0]	0	1
{RSSI[5:1], LD}	1	1

RF Status Indication Table

- When set R0x07[6] = 0 & R2E[5] =1, MCU read R0x4B[5:0] to get the RSSI digital output value, RSSI[5:0].
- When set R0x07[6] = 1 & R2E[5] =1, MCU read R0x4B[5:0] to get the RSSI value only at R0x4B[5:1] mapping to RSSI[5:1] and LD (PLL lock detection indication) at R0x4B[0].

Channel Change in Buffer Mode:

- Write 0x02[6:0] as the table listed below

CH_NO	0x02[6:0]
1	0x01
2	0x02
•	•
•	•
•	•
62	0x3E
63	0x3F
•	•
•	•
•	•
80	0x50
81	0x51
82	0x52

Channel Change Control Table

Frequency Deviation Control:

0x0a[3:0]	Frequency Deviation (kHz)
0 0 1 1	200
0 1 1 1	400
1 1 0 1	500

Frequency Deviation Setting

RX/TX FIFO Reset Function

When MCU writes R0x4D[0] = 1, FIFO will be reset. For RX device, because RX receiver is always active, RF blocks need 120usec settling time after FIFO reset.