# MRF89 AT Commands

**Version 1.0**

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| Command | Response | Example |
| AT | OK | Test AT startup |
| AT+RST | OK | Restart module |
| AT+VER | OK  AT:<AT version> SW:<SW version> | View version info |
| AT+UART=<speed> (not yet implemented) | OK | Set UART speed (9600, 115200) |
| AT+RFPOWER=<power> | OK  Error: Unknown TX power mode | Set RF TX power (1-8) => -8…+13dBm  1: -8 dBm  2: -5 dBm  3: -2 dBm  4: +1 dBm  5: +4 dBm  6: +7 dBm  7: +10 dBm  8: +13 dBm |
| AT+RFCHANNEL=<rf\_channel\_no> | OK  ERROR:03:Unknown radio channel | Set RF channel (1..21)  1: Channel 1  …  21: Channel 21 |
| AT+RFDRATE=<rf\_datarate> | OK | Set RF datarate  1: 2 kbps Range: +6 dBm  1: 10 kbps Range: -1 dBm  3: 33 kbps Range: -2 dBm  4: 100 kbps Range: -5.5 dBm |
| AT+RFMODE=<mode> | OK / ERROR  (RX mode only):  DATA:   * <packet\_length>, * <src\_addr>, * <dst\_addr>, * <encryption\_flag>, * <rcv\_signal\_strength>, * <data> | Set RF module mode  1: RX  2: STANDBY  3: SLEEP  Data received from remote address  Default: |
| AT+LADDR=<addr> | OK  ERROR: Unknown address | Set local node address (addr: 1..255)  If out of allowed range then error |
| AT+NADDR=<addr1:addr2:addr3:addr4> | OK | Set network address <4 bytes> (A:B:C:D) |
| AT+RFSEND=<dest\_addr>,<encryption>,<ACK>,<data> | OK  ERROR:<error\_code> | Send data to destination address. Data packet can be up to 60 bytes. If ACK is on then wait for ack  Set RF communication encryption (0: OFF / 1: ON) |
| AT+ENCKEY=<enc\_key> (not yet implemented) | OK | Set AES-128 encryption key, in comma separated form |
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