

**CODE:**

//RFID reads the tag by Arduino mega

unsigned int status = 0;

unsigned char val,RSSI,Tag\_num,I,Q;

unsigned char SCMD[] = {0x43,0x03,0x01};

unsigned char Rcard[12];

unsigned char Freq[3];

void setup()

{

Serial.begin(115200);

Serial1.begin(115200);

}

void loop()

{

if (status == 0)

Serial1.write(SCMD,3);

delay(500);

if (Serial1.available() > 0) {

val = Serial1.read();

switch(status) {

case 0: // parse 0x44

if (val == 0x44)

{status = 1; Serial.print(val);}

break;

case 1: //parse 0x16

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```
        if (val == 0x16)
            {status = 2; Serial.print(val);}
        else if (val == 0x05)
            //{Serial.print("No Tag"); }
            {status = 22; Serial.print(val);}

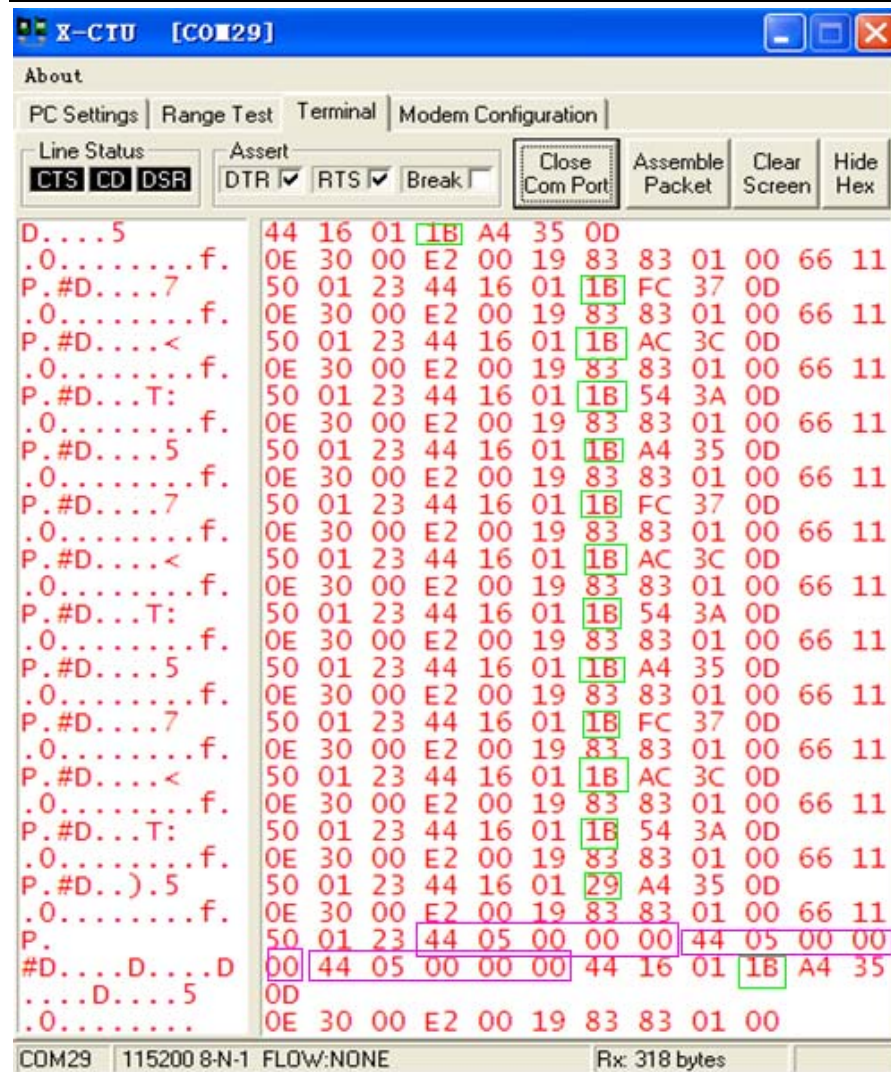
        break;
case 2:
    if (val > 0)
        {status = 3; Tag_num = val; Serial.print(val);}
        break;
case 3:
    RSSI = val; I = (val&0x0F)*2; Q = (val>>4)*2;
    Serial.print(val);
    //Serial.print(RSSI);
    status = 4;
    break;
case 4:
case 5:
case 6:
    Freq[status - 4] = val;
    status ++;
    Serial.print(val);
    break;
case 7:
    if (val == 0x0E)
        {status = 8; Serial.print(val);}
        break;
case 8:
    if (val == 0x30)
        {status = 9; Serial.print(val);}
        break;
case 9:
    if (val == 0x00)
        {status = 10; Serial.print(val);}
        break;
case 10:
case 11:
case 12:
case 13:
case 14:
case 15:
case 16:
```

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case 17:
case 18:
case 19:
case 20:
case 21:
    Rcard[status - 10] = val;
    status ++;
    Serial.print(val);
    if (status == 22)    status = 0;
    break;

case 22:
    if (val == 0x00) {status = 23; Serial.print(val);}
    break;
case 23:
    if (val == 0x00) {status = 24; Serial.print(val);}
    break;
case 24:
    if (val == 0x00) {status = 0; Serial.print(val);}
    break;
default:
    break;
}
}
```

You can see the serial tool:



You also read the RSSI value by this code:

