

AT Command for COFDM Rx module

Version 2.0

Connect computer to our COFDM receiver control UART (TTL 3.3V) with an USB to TTL UART adaptor. UART setting: text mode, 9600 baud rate, 8 bit, 1 stop bit, no verification.

AT command

AT command format: start with "AT" and end with "_".

1.1.1 ping

| | |
|------------------|--|
| Format | ATDR_ |
| Parameter | No |
| Function | To detect the module if it is transmitting module or receiver module |
| | Receiver module: "ATDRSHD1 OK" |
| Type | Inquiry command |

1.1.2 set receiver

| | |
|------------------|---|
| Format | ATSR\$(freq), \$(bw), \$(rt), \$(cvbs) _ Example: ATSR320000,6000,0,0_ |
| Parameter | Working frequency freq(KHz) 200000~860000(200MHz~860MHz, 1KHz step) |
| | Bandwidth bw(KHz) 2000~8000(2MHz~8MHz, 1KHz step) |
| | rt: 0→ normal latency; 1→low latency.(It is required that the transmitter also turn on this option and use it in pairs) |
| | CVBS output: 0 pal; 1 ntsc |
| Function | Setting receiver parameters |
| Feedback | Example: ATSR320000,6000,0,0_ ATSR320000,6000,0,0 OK |
| Comments | Setting command, still valid when stop power or reset |

1.1.3 get receiver

| | |
|------------------|--|
| Format | ATGR_ |
| Parameter | No |
| Function | Inquiry receiver parameters |
| feedback | Example: ATGR_ ATGR320000,6000,0,aes:0,cvbs:0 OK |
| Comments | 1. Inquiry command 2. aes means AES decryption on/off: 0 disable; 1 enable 3. cvbs means AV output format: 0 pal; 1 ntsc |

1.1.4 get bit error rate

| | |
|------------------|--|
| Format | ATGB_ |
| Parameter | No |
| Function | Inquiry bit error rate and signal intensity of ANT 1 and ANT 2 |
| Function | Example: ATGB_ ATGB ber1:0.00% ber2:0.00% RSSI1:54 RSSI2:53 Lock1:1 Lock2:1 OK |
| Comments | 1. Inquiry command 2. ber1: bit error rate of ANT 1, ber2: bit error rate of ANT 2, 0.0%~100.0% 3. RSSI1 and RSSI2 means signal intensity of ANT 1 and ANT 2, 0~100 4. Lock1 and Lock2 indicate if the transmitting signal is locked by ANT1 and ANT2. ("1" means it is locked) |

1.1.5 set password

| | |
|------------------|---|
| Format | ATSP\$(password), \$(password) _ Example: ATSP123456,123456_ |
| Parameter | AES password: 6 bits password(ASCII) AES password: 6 bits password(ASCII) (again to confirm) |
| Function | To set AES password |
| Feedback | Example: ATSP123456,123456_ ATSP123456 OK |
| Comments | 1. "000000" means no AES encrypt 2. Setting command, still valid when stop power or reset |

1.1.6 set data transfer

| | |
|------------------|---|
| Format | ATST\$(baud rate), \$(parity) _ Example: ATST115200,0_ |
| Parameter | baud rate of the data uart: 1200、 2400、 4800、 9600、 19200、 38400、 57600、 115200 parity: 0: None; 1:Odd; 2:Even |
| Function | To set the data uart baud rate and others parameter |
| Feedback | Example: ATST115200,0_ ATST115200,0 OK |
| Comments | Setting command, still valid when stop power or reset |

1.1.7 get data transfer

| | |
|------------------|---|
| Format | ATGT_ |
| Parameter | No |
| Function | To inquiry the data uart baud rate and others parameter |
| Feedback | Example: ATGT_ ATGT115200,0 OK |
| Comments | Inquiry command |

1.1.8 set ip address

| | |
|------------------|--|
| Format | ATSIP\$(ip), \$(ip) _ Example: AT SIP192.168.1.215,192.168.1.215_ |
| Parameter | Local IP address Local IP address (again to confirm) |
| Function | To set the IP address of the receiver |
| Feedback | Example: AT SIP192.168.1.215,192.168.1.215_ AT SIP192.168.1.215 OK |
| Comments | 1. Only valid after power reset for the IP address 2. Setting command, still valid when stop power or reset |

1.1.9 get ip address

| | |
|------------------|---|
| Format | ATGIP_ Example: ATGIP_ |
| Parameter | No |
| Function | To inquiry the IP address of the receiver |
| Feedback | Example: ATGIP_ ATGIP192.168.0.215 OK |
| Comments | Inquiry command |