1. IOT-UWB

1.1

UWB at “
” web “ ”

1.2 AT+HELP

AT+HELP

RG-ULT131 mæ Պ Դ Դ

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RG-ULT121(IO)
RG-ULT131
RG-ULT141(IO)

RG-ULB111

1.6 AT+VERSION

AT+VERSION

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IOTP

1

```
AT+VERSION
```

```

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RG-ULT121(IO)
RG-ULT131
RG-ULT141(IO)

RG-ULB111

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RG-ULT121(IO)
RG-ULT131
RG-ULT141(IO)

RG-ULB111

1.9 AT+HR

AT+HR=val

Val	1-65535	S

300S

1

```
AT+HR=300
```

AT+CONFIG

-

RG-ULT121(IO)
RG-ULT131
RG-ULT141(IO)

1.10 AT+CPPLAG

secondary CCP lag

AT+CCPLAG=val

Val	2-149	ms

2ms

secondary CCP lag

1 secondary CCP lag

```
AT+CCPLAG=2
```

AT+CONFIG

-

RG-ULB111

1.11 AT+CCPPERIOD

CCP

AT+ CCPPERIOD =val

Val	10-10000	ms

150ms

CCP

1 CCP

```
AT+CCPPERIOD=150
```

AT+CONFIG

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RG-ULB111

1.12 AT+ANCTYPE

AT+ ANCTYPE = anc*type, macTofollow*

Anctype:PRIMARY/SECONDARY, SLAVE	
macTofollow *o* < *1* *1* *0* *9* *E*	

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RG-ULB111

1.13 AT+TDA

AT+TDA=ON/OFF

Val	ON: OFF

OFF

1

```
AT+TDA=ON
```

AT+CONFIG

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RG-ULT121(IO)

1.14 AT+BZ

AT+BZ=ON/OFF

Val	ON: OFF

OFF

AT

1

```
AT+BZ=ON
```

AT+CONFIG

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RG-ULT121(IO)
RG-ULT131
RG-ULT141(IO)

1.15 AT+BR

blink
AT+BR=val

Val	Val 20 10000 ms

1000

blink

1 blink
AT+BR=1000

AT+CONFIG

-

RG-ULT121(IO)
RG-ULT131
RG-ULT141(IO)

1.16 AT+RD

blink
AT+RD=val

Val	Val 0 1

1

blink

1 blink
AT+RD=0

AT+CONFIG

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RG-ULT121(IO)
RG-ULT131
RG-ULT141(IO)

1.17 AT+LIS3DHTS

AT+LIS3DHTS=val

Val	Val 1 127

RG-ULT121(IO) 9 RG-ULT131 9 RG-ULT141(IO) 5

1

```
AT+ LIS3DHTS=5
```

AT+CONFIG

-

RG-ULT121(IO)
RG-ULT131
RG-ULT141(IO)

1.18 AT+BOOTPROTO

IP

AT+BOOTPROTO={*DHCP*|*STATIC*}

{*DHCP*|*STATIC*}	*DHCP* *STATIC* IP

DHCP

15

1 IP

```
AT+IPADDR=192.168.1.110
AT+NETMASK=255.255.255.0
AT+GATEWAY=192.168.1.1
AT+DNS=192.168.202.171
AT+BOOTPROTO=STATIC
```

1 AT+CONFIG

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1.19 AT+IPADDR

IP

AT+IPADDR=*A.B.C.D*

I2( )Tj EMC 1 Tf 9 0 0 9 277.32 249.0 260.4 5607540

```
AT+IPADDR=192.168.1.110
```

1 AT+CONFIG

-

-

-

1.20 AT+NETMASK

IP

AT+NETMASK=*A.B.C.D*

A.B.C.D	IP

0.0.0.0

15

1 IP 255.255.255.0

```
AT+NETMASK=255.255.255.0
```

1 AT+CONFIG

-

-

-

1.21 AT+GATEWAY

IP

AT+GATEWAY=*A.B.C.D*

A.B.C.D	IP

0.0.0.0

15

1 192.168.1.1

```
AT+GATEWAY=192.168.1.1
```

1 AT+CONFIG

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1.22 AT+ARP

ARP

AT+ARP?

	ARP

```
```

ARP

```
AT+ARP?
Address          Age(min)  Hardware
192.168.1.22     --        5869.6c58.9247
192.168.1.1      4         00d0.f822.3344
Total number of ARP entries: 2
```

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RG-ULB111

1.23 AT+DNS

DNS

AT+DNS=*dns1,dns2*

dns1,dns2	dns1 dns dns2 dsn

dns1 0.0.0.0 dns2 0.0.0.0

IOTP

1 DNS 192.168.202.171

DNS 192.168.202.173

```
AT+DNS=192.168.202.171,192.168.202.173
```

1 AT+CONFIG

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1.24 AT+DNSCACHE

DNS

AT+DNSCACHE

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DNS

DNS

-

-

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RG-ULB111

1.25 AT+ECHO

AT+ECHO= ON/OFF

on/off	on off

on

	ntimes,ping	1	65535		
	pakagesize,ping			32	2048

```
------------ ------ ------ -------- ------------ --------
at_cmd       R      2      4        818          <1%
IDLE         R      4      0        117          1%
hal          B      1      3        176          <1%
http_upgrade S      3      1        944          <1%
Tmr Svc      S      5      2        229          <1%
System run-time: 7350 seconds.
Heap size 51200, remain 39472.

OK
```

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RG-ULB111

1.29 AT+UPGRADE

AT+UPGRADE=*url*

url	url

```
AT+UPGRADE=http://192.168.23.27/ur410-app.bin
```

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RG-ULB111

1.30 AT+CLESERV

CLE ip

AT+CLESERV=*ip,port*

ip,port	*ip* IP *port*

cle ip

```
AT+CLESERV=172.30.123.201,9200
```

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RG-ULB111

1.31 AT+QUIT

AT+QUIT

-	-

```

```

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RG-ULB111

1.32 AT+TIMEOUT

AT+TIMEOUT=val

Val	0-1440	

5

1

AT+TIMEOUT=5

AT+CONFIG

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RG-ULB111

1.33 AT+TASK

AT+TASK

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IOTP

```
AT+TASK

Task         Status ID     Pri      Stack(in Word) CPU%
------------ ------ ------ -------- -------------- --------
at_cmd       R      3      4        890            <1%
main         R      12     3        768            1%
IDLE         R      13     0        117            97%
ccp          B      11     3        923            <1%
TCP/IP       B      1      4        842            <1%
hal          B      2      3        155            <1%
dhcp-c       B      8      3        411            <1%
telnet-svr   B      10     3        923            <1%
mqtt-c       B      9      3        712            <1%
netif-lk     B      7      3        273            <1%
http_upgrade S      5      4        927            <1%
bt_console   S      4      3        923            <1%
netif-in     S      6      3        403            <1%
Tmr Svc      S      14     4        229            <1%
>> System runs 14 tasks, CPU 2%.
System run-time: 5 m 8 s.
Heap(in Byte) size 65536, remain 15296, ever-mini 7512.

OK
```

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RG-ULB111

1.34 AT+PASSWORD

AT+PASSWORD=Val

Val	

IOTP

```
AT+PASSWORD=112233

OK
```

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RG-ULB111

1.35 AT+LOG

LOG

AT+LOG=Val

AT+LOG=model,status

Val	LOG disable/error/info/debug…
model	
status	on/off

IOTP

LOG DEBUG

```
AT+LOG=DEBUG
```

RG-ULB111

1.36 AT+LOGLIMIT

LOG

```
AT+LOGWAY=BT,OFF


OK
```

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RG-ULB111