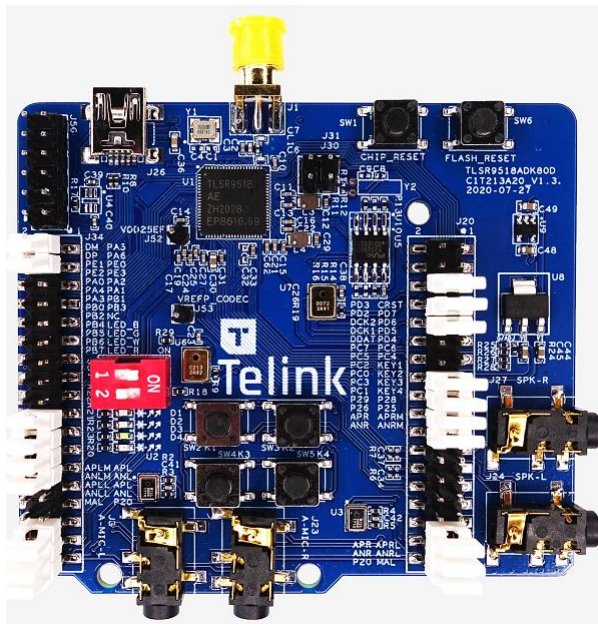


Telink Thread快速上手指南

硬件

■ 开发板



硬件

- 烧录器(Telink Burning Board)
 - ▣ USB连接PC, LED灯灭后连接成功
 - 免驱动
 - ▣ 杜邦线连接DUT
 - 3V3 -> 3V3(DUT)
 - SWM -> SWS(DUT)
 - GND -> GND(DUT)



硬件

■ USB转串口工具

▣ USB转串口工具连接开发板

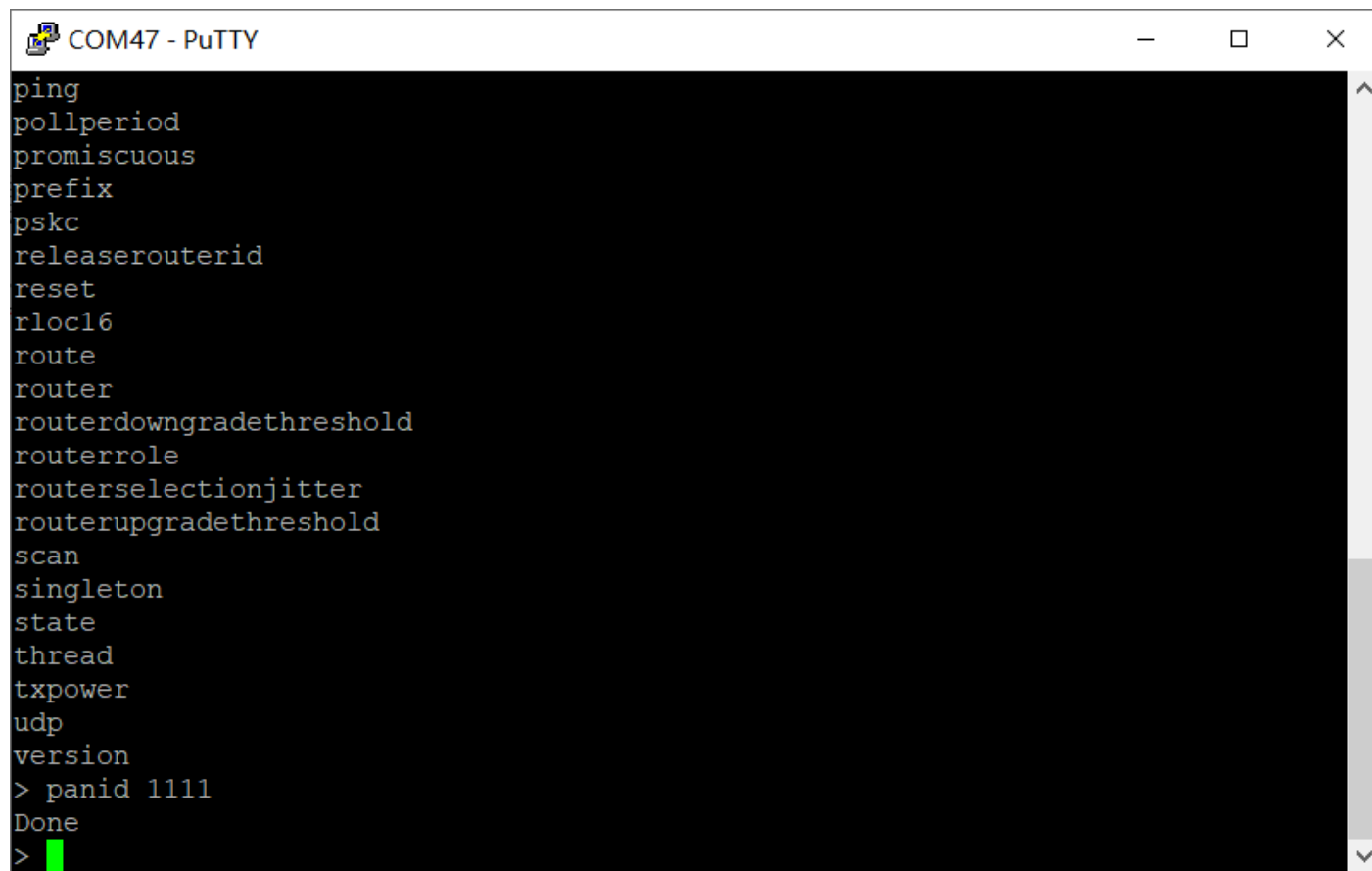
- TXD -> PB3 (DUT)
- RXD -> PB2 (DUT)
- GND -> GND (DUT)



- 参考 [“Burning and Debugging Tools for all Series”](#) ，将bin文件烧录到开发板上。

建立Thread网络

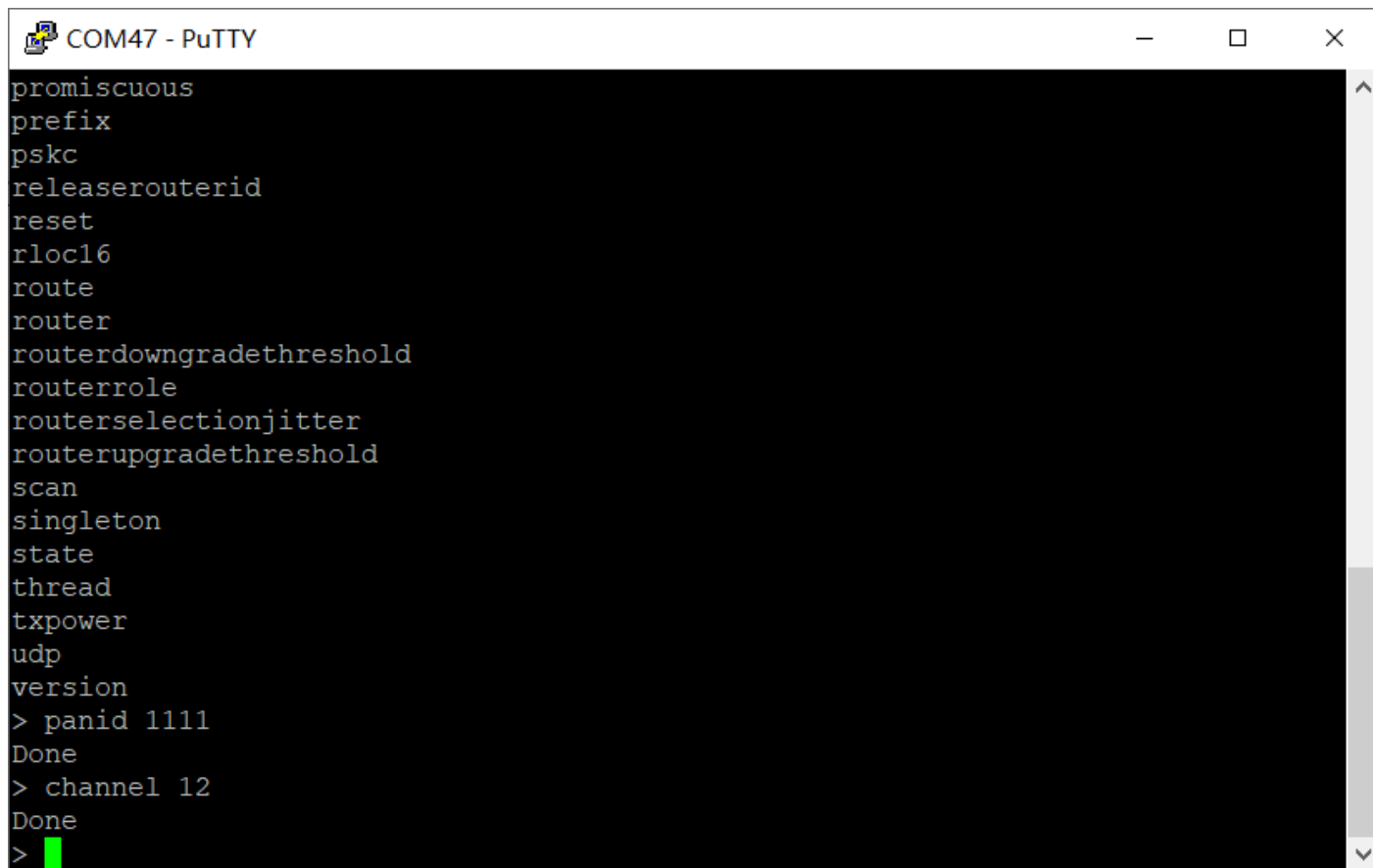
- 以搭建两个节点的简单网络为例，节点A上电，执行以下命令：
 - ▣ panid 1111



```
COM47 - PuTTY
ping
pollperiod
promiscuous
prefix
pskc
releaserouterid
reset
rloc16
route
router
routerdowngradethreshold
routerrole
routerselectionjitter
routerupgradethreshold
scan
singleton
state
thread
txpower
udp
version
> panid 1111
Done
>
```

建立Thread网络

▣ channel 12



```
COM47 - PuTTY
promiscuous
prefix
pskc
releaserouterid
reset
rloc16
route
router
routerdowngradethreshold
routerrole
routerselectionjitter
routerupgradethreshold
scan
singleton
state
thread
txpower
udp
version
> panid 1111
Done
> channel 12
Done
>
```

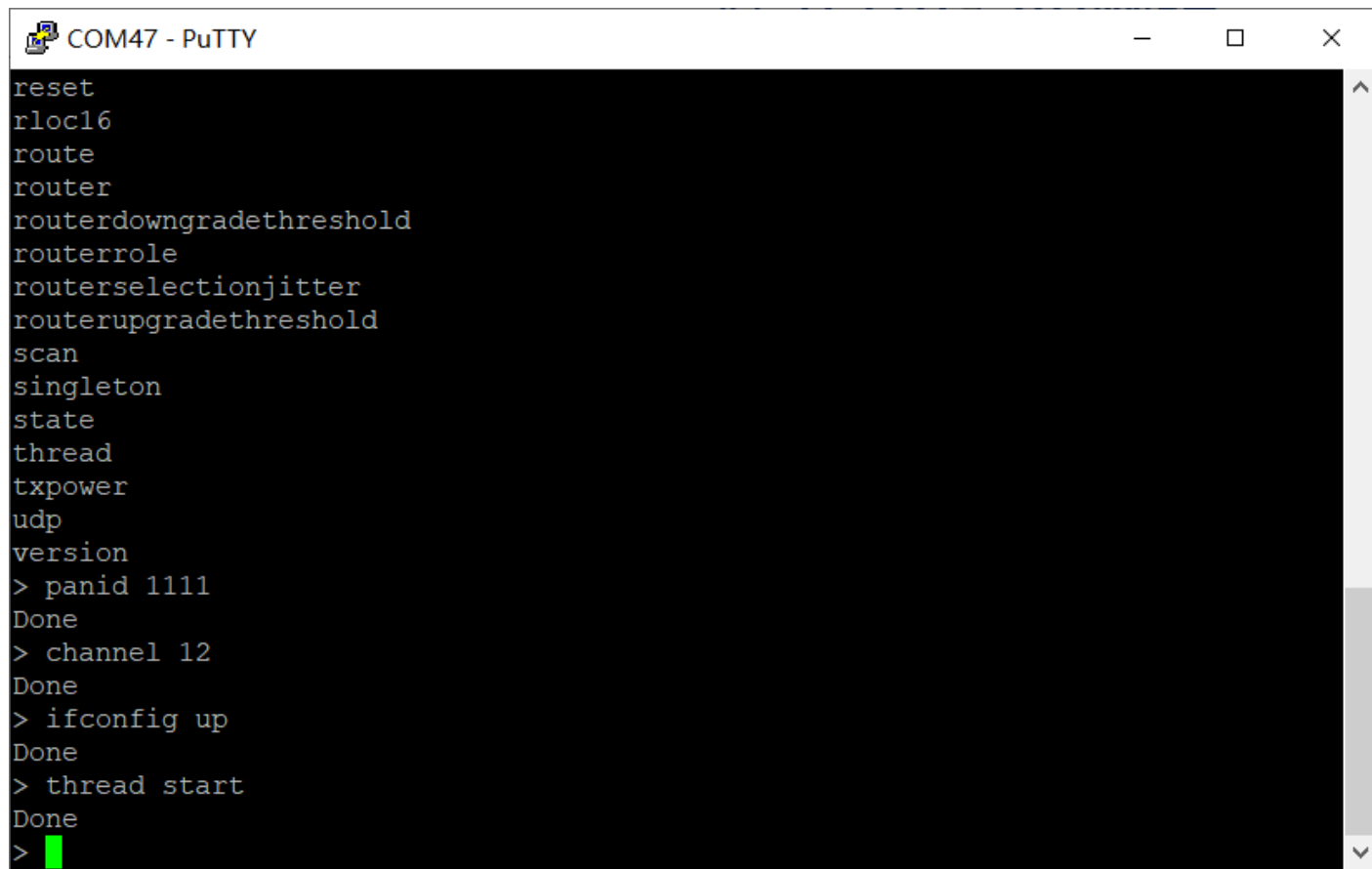
建立Thread网络

▣ ifconfig up

```
COM47 - PuTTY
pskc
releaserouterid
reset
rloc16
route
router
routerdowngradethreshold
routerrole
routerselectionjitter
routerupgradethreshold
scan
singleton
state
thread
txpower
udp
version
> panid 1111
Done
> channel 12
Done
> ifconfig up
Done
>
```

建立Thread网络

▣ thread start

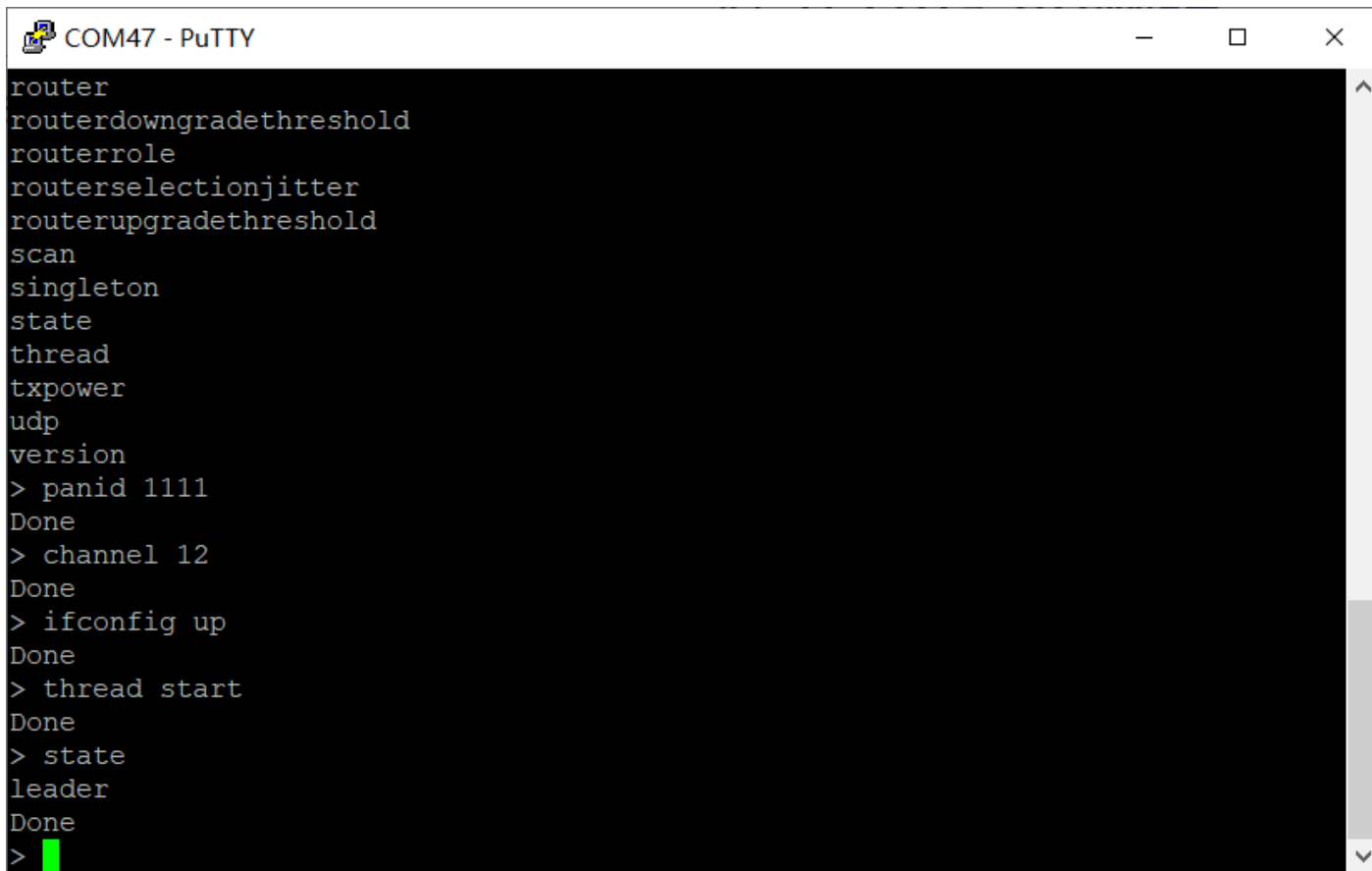


```
COM47 - PuTTY
reset
rloc16
route
router
routerdowngradethreshold
routerrole
routerselectionjitter
routerupgradethreshold
scan
singleton
state
thread
txpower
udp
version
> panid 1111
Done
> channel 12
Done
> ifconfig up
Done
> thread start
Done
>
```


建立Thread网络

▣ state

■ 由下图可以看到，节点已经成了Leader



```
COM47 - PuTTY
router
routerdowngradethreshold
routerrole
routerselectionjitter
routerupgradethreshold
scan
singleton
state
thread
txpower
udp
version
> panid 1111
Done
> channel 12
Done
> ifconfig up
Done
> thread start
Done
> state
leader
Done
>
```

建立Thread网络

- 节点B上电，执行和节点A相同的命令，可以看到，节点B首先变成了child，然后升级成了router，如下：



```
COM76 - PuTTY
> panid 1111
Done
> channel 12
Done
> ifconfig up
Done
> thread start
Done
> state
child
Done
> state
child
Done
> state
child
Done
> state
child
Done
> state
router
Done
>
```

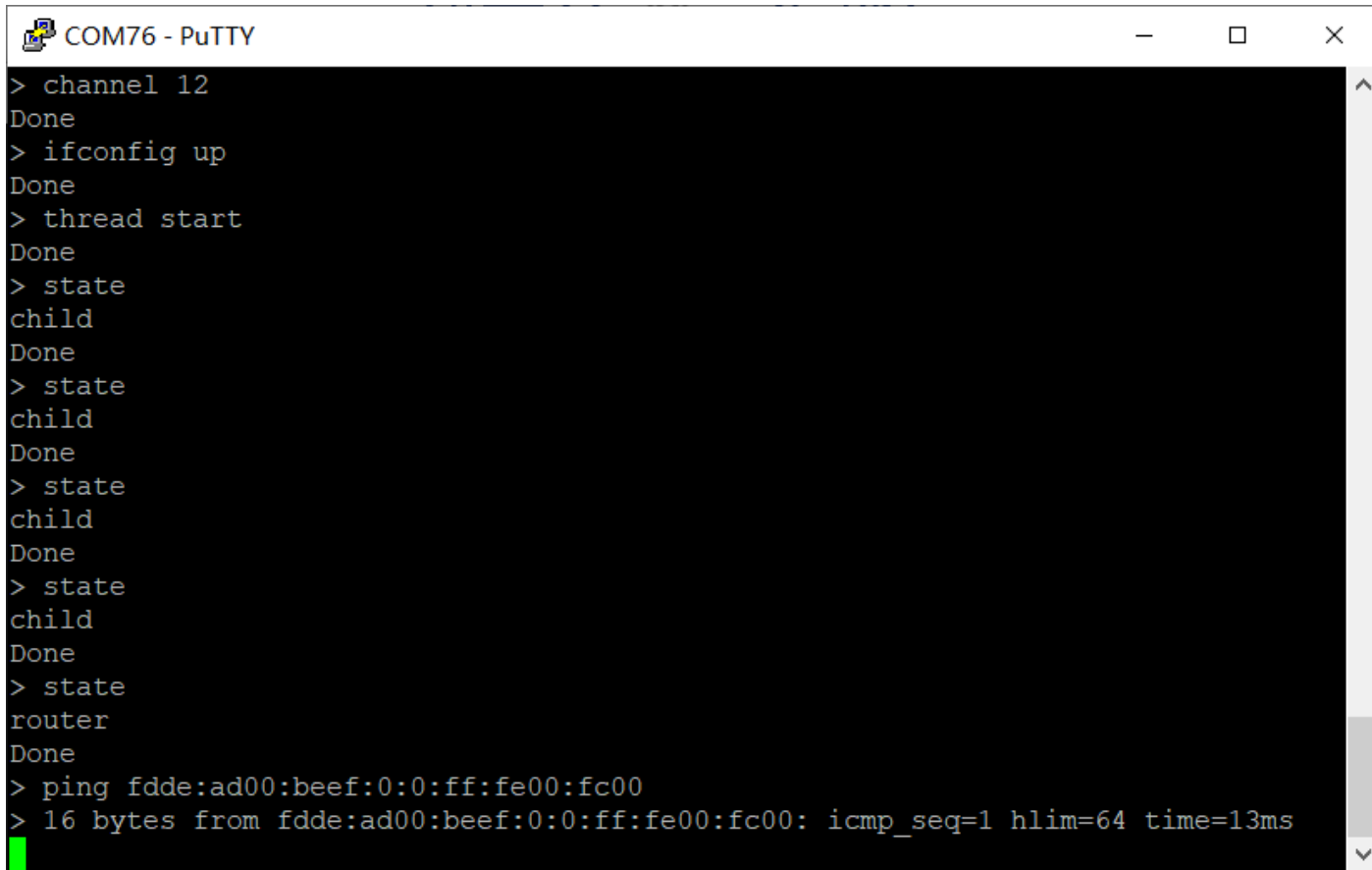
建立Thread网络

- ▣ 使用命令ipaddr获取节点A的IP地址

```
COM47 - PuTTY
detached
Done
> state
detached
Done
> state
detached
Done
> state
detached
Done
> state
leader
Done
> state
leader
Done
> ipaddr
fdde:ad00:beef:0:0:ff:fe00:fc00
fdde:ad00:beef:0:0:ff:fe00:c400
fdde:ad00:beef:0:a703:cf2:607d:10b2
fe80:0:0:0:30b4:e3ca:5c67:ef8f
Done
>
```

建立Thread网络

- 在节点B执行ping命令测试网络节点之间的连通性，由下图可知，节点A回了reply消息，网络是正常运行的



```

COM76 - PuTTY
> channel 12
Done
> ifconfig up
Done
> thread start
Done
> state
child
Done
> state
child
Done
> state
child
Done
> state
child
Done
> state
router
Done
> ping fdde:ad00:beef:0:0:ff:fe00:fc00
> 16 bytes from fdde:ad00:beef:0:0:ff:fe00:fc00: icmp_seq=1 hlim=64 time=13ms

```