

IoT物联网

# FM650模组在Android下 ECM拨号

广和通大学计划项目组

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FM650模组在Android下ECM  
拨号实操演示

# FM650模组在Android下ECM拨号步骤

## 步骤

- ▷ FM650硬件信息确认
- ▷ 配置Android启动脚本
- ▷ 导入RIL库文件
- ▷ 开始ECM拨号
- ▷ 验证ECM拨号成功

# FM650模组在Android下ECM拨号演示

```
[10:11:08.393]收←◆ATI
[10:11:08.425]收←◆
Manufacturer: Fibocom Wireless Inc.
Model: FM650-CN
Revision: 86600.1000.00.04.01.17
SVN: 01
IMEI: 862138050404636

OK

[10:11:11.231]发→◇AT+CPIN?
□
[10:11:11.233]收←◆AT+CPIN?
+CPIN: READY

OK

[10:11:13.599]发→◇AT+CESQ
□
[10:11:13.601]收←◆AT+CESQ
+CESQ: 99,99,255,255,255,80,69,74

OK

[10:11:41.903]发→◇AT+CGREG?
□
[10:11:41.905]收←◆AT+CGREG?
+CGREG: 0,1

OK

[10:11:44.807]发→◇AT+COPS?
□
[10:11:44.809]收←◆AT+COPS?
[10:11:44.852]收←◆
+COPS: 0,0,"CHINA MOBILE",11]

OK
```

```
build.prop - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)
#
# ADDITIONAL_BUILD_PROPERTIES
#
ro.bionic.ld.warning=1
ro.treble.enabled=true
persist.sys.dalvik.vm.lib.2=libart.so
dalvik.vm.isa.arm64.variant=cortex-a5
dalvik.vm.isa.arm64.features=default
dalvik.vm.isa.arm.variant=cortex-a15
dalvik.vm.isa.arm.features=default
dalvik.vm.lockprof.threshold=500
net.bt.name=Android
dalvik.vm.stack-trace-dir=/data/anr
ro.expect.recovery_id=0xd352acb8187
ril.fibocom.dialmode=1
ril.fibocom.usbmode=35
ril.network.always5G=true
```

```
C:\Windows\System32\cmd.exe - adb shell
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:10 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:0 TX bytes:1340
Interrupt:24

rk3399_firefly_mid:/ # ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=103 time=173 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=103 time=93.9 ms
64 bytes from 8.8.8.8: icmp_seq=8 ttl=103 time=826 ms
64 bytes from 8.8.8.8: icmp_seq=9 ttl=103 time=109 ms
64 bytes from 8.8.8.8: icmp_seq=10 ttl=103 time=75.1 ms
64 bytes from 8.8.8.8: icmp_seq=16 ttl=103 time=497 ms
64 bytes from 8.8.8.8: icmp_seq=17 ttl=103 time=94.7 ms
64 bytes from 8.8.8.8: icmp_seq=18 ttl=103 time=134 ms
64 bytes from 8.8.8.8: icmp_seq=23 ttl=103 time=236 ms
64 bytes from 8.8.8.8: icmp_seq=24 ttl=103 time=122 ms
64 bytes from 8.8.8.8: icmp_seq=29 ttl=103 time=459 ms
64 bytes from 8.8.8.8: icmp_seq=30 ttl=103 time=119 ms
64 bytes from 8.8.8.8: icmp_seq=31 ttl=103 time=81.3 ms
^Z[1] + Stopped \ping 8.8.8.8
rk3399_firefly_mid:/ # ping www.baidu.com
PING www.a.shifen.com (120.232.145.144) 56(84) bytes of data.
64 bytes from 120.232.145.144: icmp_seq=1 ttl=51 time=28.2 ms
64 bytes from 120.232.145.144: icmp_seq=2 ttl=51 time=35.6 ms
64 bytes from 120.232.145.144: icmp_seq=3 ttl=51 time=23.6 ms
64 bytes from 120.232.145.144: icmp_seq=4 ttl=51 time=76.2 ms
^Z[2] + Stopped \ping www.baidu.com
rk3399_firefly_mid:/ #
```

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FM650模组在Android下ECM  
拨号技术资料链接

# FM650模组在Android下ECM拨号技术资料链接

FM650技术资料链接: [https://bbs.elecfans.com/jishu\\_2319079\\_1\\_1.html](https://bbs.elecfans.com/jishu_2319079_1_1.html)

见FM650技术资料03号文件夹FM650功能下-《03.02-FM650功能 Android下ECM拨号》

01--FM650国产5G模组	01.01--FM650产品文档	1、概述 Fibocom_FM650-CN_产品单页_V1.2 2、硬件 FIBOCOM FM650-CN系列 硬件指南_V1.0.3 3、软件 Android (Android系统下的应用) Linux (Linux系统下的应用) Windows (Windows系统下的应用) 通用 (AT手册和通用的应用)	FM650的产品文档, 包括AT手册、硬件手册、工具软件、应用指南等
02--FM650-CN开发板	02.01--FM650-CN使用手册		FM650开发板的相关资料, 包含开发板照片、电路图、驱动安装方法、硬件确认方法
	02.02--FM650-CN照片和电路图		
	02.03--FM650-CN驱动安装		
	02.04--FM650-CN硬件信息确认		
03--FM650功能	03.01--FM650功能 Linux下ECM拨号		FM650的ECM拨号教程及资料
	03.02--FM650功能 Android下ECM拨号		



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We are committed to enabling industries with reliable, accessible, secure, and intelligent IoT wireless solutions and wireless module products to maximize their value, providing a perfect wireless experience to people and enriching smart life of the whole society.

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