

[Target System \(MediaTek Ralink MIPS\)](#)

[Subtarget \(MT76x8 based boards\)](#)

[Target Profile \(COSITEA Z01\)](#)

如果Target Profile没有COSITEA Z01:

(1) 创建 openwrt/target/linux/ramips/dts/Z01.dts

```
1 /dts-v1/;
2 #include <dt-bindings/input/input.h>
3 #include <dt-bindings/gpio/gpio.h>
4
5 #include "mt7628an.dtsi"
6
7 / {
8     compatible = "cositea,z01", "mediatek,mt7628an-soc";
9     model = "COSITEA Z01";
10
11     chosen {
12         bootargs = "console=ttyS0,115200";
13     };
14
15     memory@0 {
16         device_type = "memory";
17         reg = <0x0 0x4000000>;
18     };
19
20     gpio-keys-polled {
21         compatible = "gpio-keys-polled";
22         poll-interval = <20>;
23
24         reset {
25             label = "reset";
26             gpios = <&gpio1 6 GPIO_ACTIVE_LOW>;
27             linux,code = <KEY_RESTART>;
28         };
29     };
30 }
```

```

29     };
30
31     gpio-leds {
32         compatible = "gpio-leds";
33
34         wan {
35             label = "z01:blue:wan";
36             gpios = <&gpio1 11 GPIO_ACTIVE_LOW>;
37         };
38
39         wifi {
40             label = "z01:blue:wifi";
41             gpios = <&gpio1 12 GPIO_ACTIVE_LOW>;
42         };
43     };
44 };
45
46 &pinctrl {
47     state_default: pinctrl0 {
48         gpio {
49             ralink,group = "wled_an", "p0led_an", "refclk";
50             ralink,function = "gpio";
51         };
52     };
53 };
54
55 &spi0 {
56     status = "okay";
57
58     flash@0 {
59         compatible = "jedec,spi-nor";
60         reg = <0>;
61         spi-max-frequency = <10000000>;
62         m25p,chunked-io = <32>;
63
64         partitions {
65             compatible = "fixed-partitions";
66             #address-cells = <1>;
67             #size-cells = <1>;
68
69             partition@0 {
70                 label = "u-boot";

```

```

71             reg = <0x0 0x30000>;
72             read-only;
73         };
74
75         partition@30000 {
76             label = "u-boot-env";
77             reg = <0x30000 0x10000>;
78             read-only;
79         };
80
81         factory: partition@40000 {
82             label = "factory";
83             reg = <0x40000 0x10000>;
84         };
85
86         partition@50000 {
87             compatible = "denx,uimage";
88             label = "firmware";
89             reg = <0x50000 0x7b0000>;
90         };
91     };
92 };
93 };
94
95 &wmac {
96     status = "okay";
97     ralink,mtd-eeprom = <&factory 0x4>;
98 };
99
100 &ethernet {
101     mtd-mac-address = <&factory 0x4>;
102     mediatek,portmap = "w1111";
103 };
104
105 &uart1 {
106     status = "okay";
107 };

```

(2) 修改openwrt/target/linux/ramips/image/mt76x8.mk, 修改到这一步就能在target profile中看到。

```

1 define Device/cositea_z01
2     DTS := Z01
3     IMAGE_SIZE := $(ralink_default_fw_size_8M)

```

```
4  DEVICE_TITLE := COSITEA Z01
5  endif
6  TARGET_DEVICES += cositea_z01
```

(3) 修改openwrt/target/linux/ramips/base-files/lib/upgrade/platform.sh添加支持COSITEA Z01固件升级。

```
1  cf-wr800n|\
2  cositea,z01|\
3  cs-qr10|\
4  //烧录后会在/lib/upgrade/platform.sh
```

Base system (不用配置)

Administration (不用配置)

Boot Loaders (不用配置)

cositea --->(选择自己添加的模块进行编译,选择luci app后会自动选择)

Development (不用配置)

Extra packages (不用配置)

Firmware (不用配置)

Fonts (不用配置)

Kernel modules (重点配置,有时候需要额外命令配置make kernel_menuconfig)

```
{
  USB Support --->
    <*> kmod-usb-ohci
    <*> kmod-usb-serial (虚拟机调试时可选)
    <*> kmod-usb-serial-ch341 (虚拟机调试时可选)
    <*> kmod-usb2
}
```

Languages (不用配置)

Libraries (重点配置,不出意外都是自动选择了)

```
{

}
```

LuCI (重点配置)

```
{
```

1. Collections

<*> luci.....(不配置则无法通过浏览器访问)

2. Modules

Translations --->(语言支持,默认支持语言需要修改代码,或者自动匹配)

<*> English (en)

<*> Chinese (zh-cn)

3. Applications (添加服务内容,和cositea --->(选择自己添加的模块进行编译)关联)

<*> luci-app-mqtt

<*> luci-app-stp

<*> luci-app-travelmate

<*> luci-app-uart2tcp

<*> luci-app-quectel

4. Themes (主题配置)

<*> luci-theme-material

}

Mail (不用配置)

Multimedia (不用配置)

Network (重点配置)

{

WWAN --->

<*> uqmi..... Control utility for mobilebroa

<*> mosquito-client-nossl

}

Sound (不用配置)

Utilities (重点配置)

{

<*> dmesg (调试时使用)

}

Xorg (不用配置)