



Product Similarity Declaration

To Whom It May Concern,

We, Shenzhen Huaptec Co., Ltd, hereby declare that our Cellular signal booster, Model Number: F15C-CP, F15B-CP-M, F15B-CP, F10C-CP-M, F10C-CP, F10B-CP-M and F10B-CP are electrically identical with the Model Number: F15C-CP-M that was certified by GTS-CCISL. They named differently just due to different output power levels and gains achieved by adjusting the potentiometer, or different shell or different MGC function (different DIP switch), however they have the same designs, PCB board, electronic device and software.

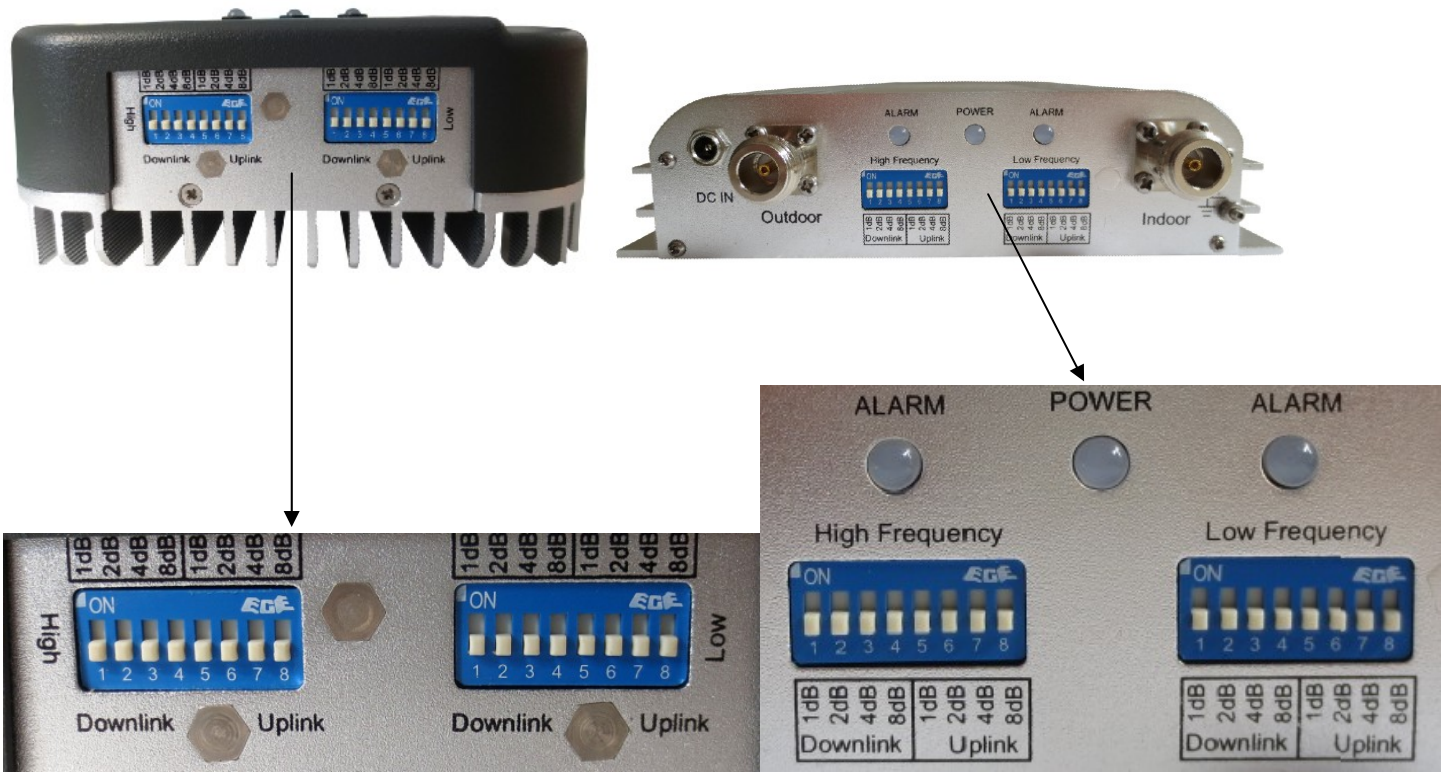
The 15dBm type has a factory pre-set maximum output power of UL 10dBm/ DL 15dBm and maximum gain of UL 63 dB/ DL 68 dB. **However, some user maybe want to use lower power 10 dBm booster with the same shell as 15dBm booster in some smaller place. So we reduce the power and gain by adjust the potentiometer in factory.** When it is pre-set to be output power of UL 10dBm / DL 10dBm and maximum gain of UL 60 dB/ DL 63 dB, the model number is F10C-CP-M, F10C-CP, F10B-CP-M and F10B-CP.

And we summarized their difference in below file.

Item	Model Number	Max. Power	Max. Gain	MGC function	shell
1	F15C-CP-M	UL10dBm, DL15dBm	UL63dB,DL68dB	1-15dB/1dB step	Metal case 176*200*43mm
2	F15C-CP	UL10dBm, DL15dBm	UL63dB,DL68dB	1-15dB/1dB step	Big plastic case,
3	F15B-CP-M	UL10dBm, DL15dBm	UL63dB,DL68dB	5,10,15dB	Metal case176*200*43mm
4	F15B-CP	UL10dBm, DL15dBm	UL63dB,DL68dB	5,10,15dB	small plastic case,
5	F10C-CP-M	UL10dBm, DL10dBm	UL60dB,DL63dB	1-15dB/1dB step	Metal case 176*200*43mm
6	F10C-CP	UL10dBm, DL10dBm	UL60dB,DL63dB	1-15dB/1dB step	Big plastic case,
7	F10B-CP-M	UL10dBm, DL10dBm	UL60dB,DL63dB	5,10,15dB	Metal case176*200*43mm
8	F10B-CP	UL10dBm, DL10dBm	UL60dB,DL63dB	5,10,15dB	small plastic case,

DIP Switch can be used to adjust the repeater gain when Alarm LED is orange or even RED. The principle is that repeater alarm LED must be green color.

■ **MGC (1-15dB by 1dB step) :**



Switches 1-4 represent Downlink and 4.8 represent Uplink. When it is necessary to adjust the gain by DIP switch, firstly please adjust Downlink gain according to input signals, secondly please adjust Uplink gain according to Downlink gain.

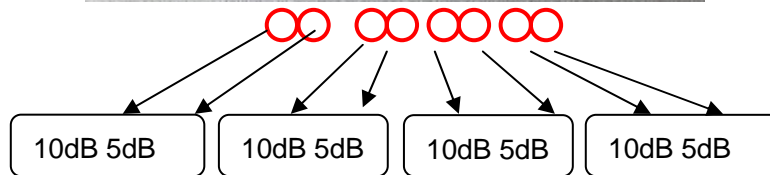
The DIP Switches have default 'OFF' status; please push relevant switches to "ON" position if certain attenuation value needs to be achieved.

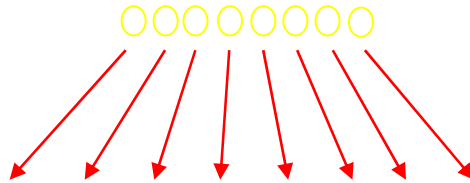
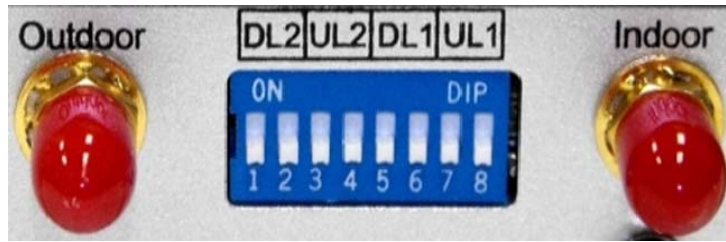
DIP switch attenuation setting:

Att	1	2	3	4	Att.	1	2	3	4	Att.	1	2	3	4
0 dB	off	off	off	off	6 dB	off	ON	ON	off	12dB	off	off	ON	ON
1 dB	ON	off	off	off	7 dB	ON	ON	ON	off	13dB	ON	off	ON	ON
2 dB	off	ON	off	off	8 dB	off	off	off	ON	14dB	off	ON	ON	ON
3 dB	ON	ON	off	off	9 dB	ON	off	off	ON	15dB	ON	ON	ON	ON
4 dB	off	off	ON	off	10dB	off	ON	off	ON					
5 dB	ON	off	ON	off	11dB	ON	ON	off	ON					

■ **MGC (5, 10,15dB by 5dB step):**

Turn **ON** the dip switches to reduce gain as follows:





Put **ON** a pair of switches for a total of 15dB reduction in gain.
 (DL1 & UL1 – Alarm Low) – For 800MHz or 900 MHz Band
 (DL2 & UL2 – Alarm High) – For 1700, 1800, 1900 & 2100 MHz Band
Remark: In single system, there is only one system could be set.

Put **ON** a pair of switches for a total of 15dB reduction in gain.
 (DL1 & UL1 – Alarm Low) – For 800MHz or 900 MHz Band
 (DL2 & UL2 – Alarm High) – For 1700, 1800, 1900 & 2100 MHz Band

◆ **DIP switch downlink attenuation setting:**

Att	1	2
0 dB	off	off
5 dB	ON	off
10 dB	off	ON
15dB	ON	ON

◆ **DIP switch uplink attenuation setting:**

Att	3	4
0 dB	off	off
5 dB	ON	off
10 dB	off	ON
15dB	ON	ON

Please contact me if you have any question.

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