

14 June, 2008

Purpose of Change

Dear Sir/Madam:

Re: Application for a Permissive Change Filing with FCC ID: EW780-6270-00

The purpose of this document is to describe all the changes that are made to the VTECH designed family models **VTech LS6115 and LS6115-x** from the original model **VTech DS6121** except the following.

Changes from the original model DS6121 to the new models LS6115 and LS6115-x:

- Baseband circuits and PCB layouts of handset and base have some minor changes;
- Handset antenna is changed from PCB antennas to wire antenna;
- Minor change of the outlook of base & handset is not same as previous models;
- Answering system has removed;
- Change RF Module PCB layer of Base and Handset from 4 to 2;
- Employ new RF chipset with bit different from previous RF chipset used on original model (please refer to attached Explanation of the RFIC for further details)

Similarities between original model DS6121 and the new models LS6115 and LS6115-x:

- Same frequency band & channels
- The power supply scheme and the DC current consumption are very similar

Sincerely,



Samson Man
Approbation Supervisor

14 June, 2008

Purpose of Change

Dear Sir/Madam:

Re: Application for a Permissive Change Filing with FCC ID: EW780-6270-00

The purpose of this document is to describe all the changes that are made to the VTECH designed family models **VTech LS6125, LS6125-x, LS6126 & LS6126-x** from the original model **VTech DS6121** except the following.

Changes from the original model DS6121 to the new models LS6125, LS6125-x, LS6126 & LS6126-x:

- Baseband circuits and PCB layouts of handset and base have some minor changes;
- Handset antenna is changed from PCB antennas to wire antenna;
- Minor change of the outlook of base & handset is not same as previous models;
- Change RF Module PCB layer of Base and Handset from 4 to 2;
- Employ new RF chipset with bit different from previous RF chipset used on original model (please refer to attached Explanation of the RFIC for further details)

Similarities between original model DS6121 and the new models LS6125, LS6125-x, LS6126 & LS6126-x:

- Same frequency band & channels
- The power supply scheme and the DC current consumption are very similar

Sincerely,



Samson Man
Approbation Supervisor

Explanation of the RFIC used for FCC Part 15 permissive change

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1. Aim

This document is aimed at explaining the differences between the RFIC PNX800x and its low cost successor PNX801x in order to apply a permissive change using PNX801x with the same FCC ID as PNX800x.

2. Introduction

2.1 PNX800x

The PNX800x family is a newly developed RFIC by DSPG. It is built with baseband controller for DECT 6.0 cordless phone application. Each PNX800x IC has two dice built-in: RFAPU and DPU. The RFAPU consists of the RF transceiver, crystal oscillator and the voltage regulators control circuits. The DPU consists of an ARM core processor, memory, burst mode processor (BMP) and the digital IO.

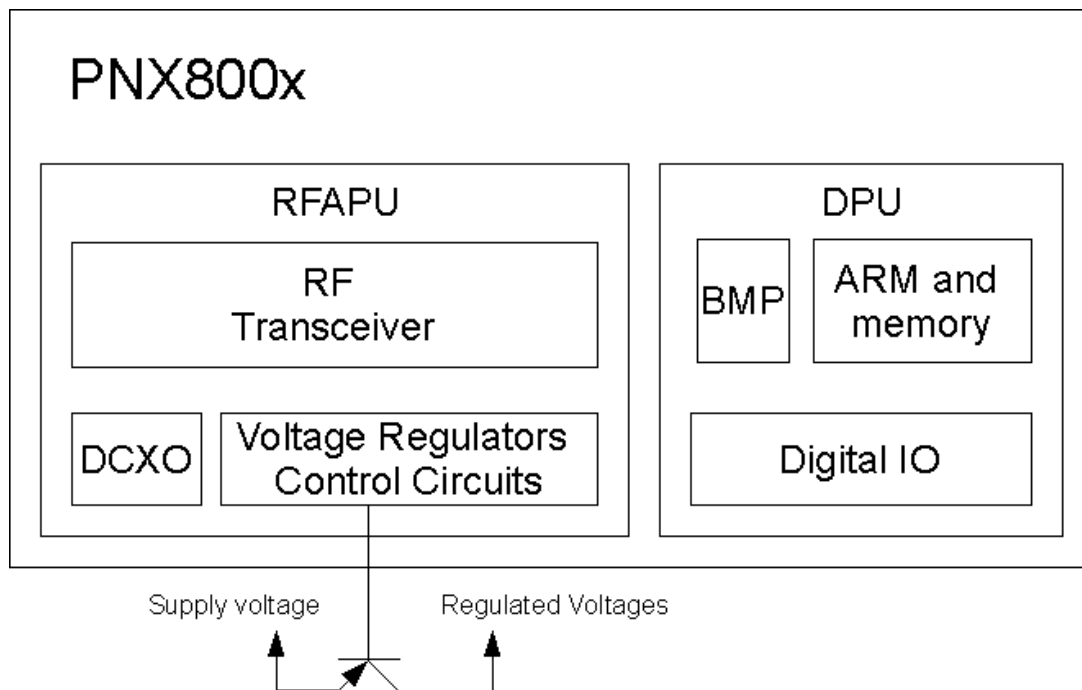


Figure 2.1.1 Block Diagram of PNX800x

The voltage regulators control circuits in RFAPU is used to drive the external general-purpose transistor to regulate out the desired voltages from the supply voltage.

The last digit x in PNX800x represents the different internal memory sizes.

Member	Flash size (byte)	ROM size (byte)	RAM size (byte)	Regulated Voltage for digital core circuits (V)
PNX8001		320k	28k	1.2
PNX8002		640k	68k	1.2
PNX8009	512k	128k	68k	1.8

Table 2.1.1 Memory size of PNX800x

2.2 PNX801x

The PNX801x family is the low cost successor of the PNX800x family. It shares the same architecture and the same package (HVQFN88). The only difference between PNX800x and PNX801x is the built-in voltage regulator transistors. The whole RF architecture and other blocks are remained unchanged.

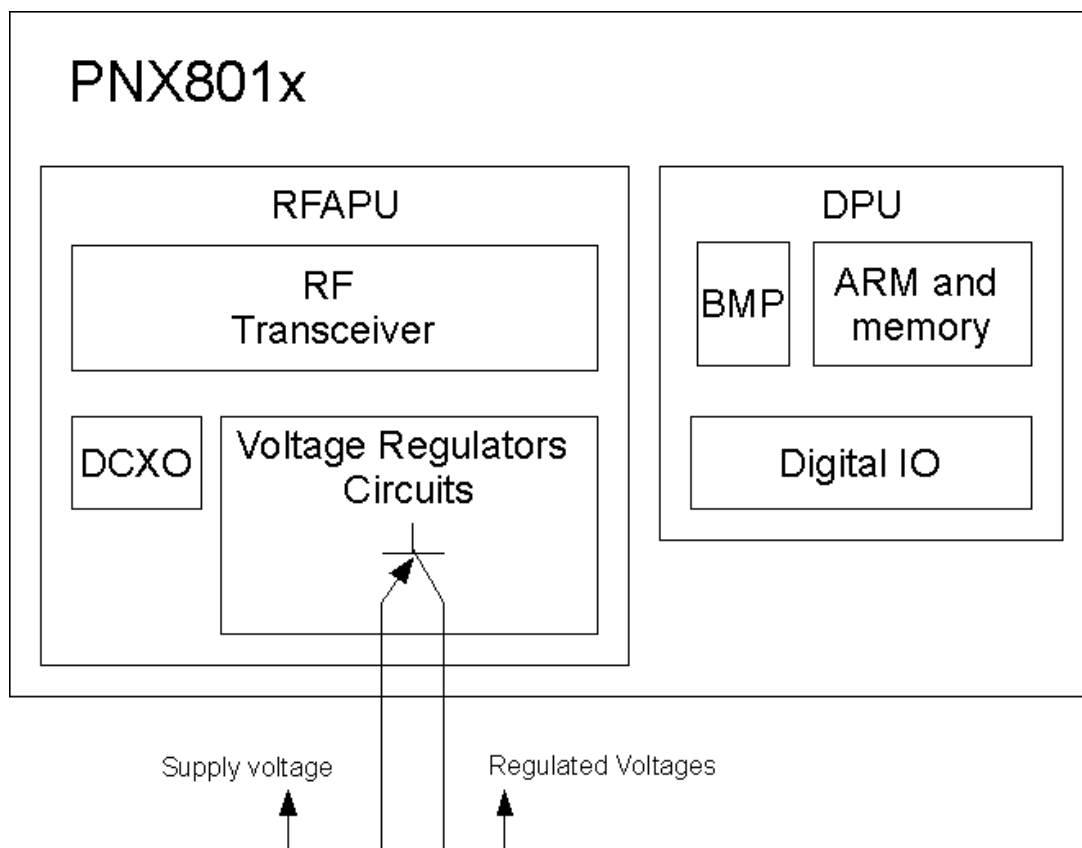


Figure 2.2.1 Block Diagram of PNX801x

The last digit x in PNX801x represents the different internal memory sizes.

Member	Flash size (byte)	ROM size (byte)	RAM size (byte)	Regulated Voltage for digital core circuits (V)
PNX8010		256k	24k	1.2
PNX8011		320k	28k	1.2
PNX8019	512k	128k	68k	1.8

Figure 2.2.2 Memory size of PNX801x

3. Details information in permissive change

PNX800x is currently used in VTech model DS6111, LS6115, LS6117 and SL82218. All models granted the FCC Part 15 approval. PNX801x will be used on the same models as a cost reduction version without the following changes.

- a. *RF Frequency Plan*
 - No change in both Tx and Rx frequencies.
- b. *Frequency Multiplication Stages*
 - No change in frequency multiplication stages
- c. *Modulator Circuit*
 - No change in modulator circuit
- d. *Crystal Frequency*
 - No change in crystal frequency
- e. *Data Rate*
 - No change in data rate
- f. *Maximum Power*
 - No change in maximum power
- g. *Antenna changes*
 - No change in antenna in both fixed part and portable part
- h. *PCB and hardware changes*
 - No active hardware component is added
 - No change in RF transceiver block
 - No change in radio parameters has occurred
 - No change in PCB size
- i. *Enclosure changes*
 - No enclosure is changed
- j. *Software changes*
 - No additional frequency is added
 - No data rate is added

4. Conclusions

1. PNX800x and PNX801x are sharing the same architecture as both baseband and RF blocks are highly integrated into a single chip.
2. Both ICs have the same RF transceiver block. The pins at transmitter part are pin to pin compatible and no change in radio parameters has occurred.
3. Both IC shares the same frequency plan, same frequency multiplication stages, same crystal frequency and same maximum power.
4. Both IC shares the same digital blocks including the MCU, stabilizing circuitry and modulator circuits.
5. Both IC shares the same package and hence the same PCB size.
6. PNX801x has the cost advantage by building-in the voltage regulator transistors. It will not bring any degradation in RF and electrical performance.
7. From the above statements, we claim that models with PNX801x can use the same FCC ID as PNX800x to apply the permissive change in FCC approval.