

Airvana Train 8 Design Variations

TABLE OF CONTENTS

	1
TABLE OF CONTENTS	2
1. REFERENCES	3
1.1 AIRVANA REFERENCE DOCUMENTS	3
1.2 COMPONENT SPECIFICATIONS	3
1.3 INDUSTRY-STANDARD REFERENCES	3
1.4 ACRONYMS	3
2. INTRODUCTION	4
2.1 RADIO BLOCK DIAGRAM	5
3. 750723 – 750722 DESIGN VARIATION	6
3.1 SAW COMPONENT VARIATION	6

1. References

1.1 *Airvana Reference Documents*

1. 750723 Schematic
2. 750722 Schematic
3. 700723 PCB Board File
4. 700722 PCB Board File
5. Train 8 Radio Block Diagram

1.2 *Component Specifications*

1. Airvana Part Number 130232 : *Epcos* B39202B9007E610
2. Airvana Part Number 130333 : *Epcos* B39202B9477P810

1.3 *Industry-Standard References*

1.4 *Acronyms*

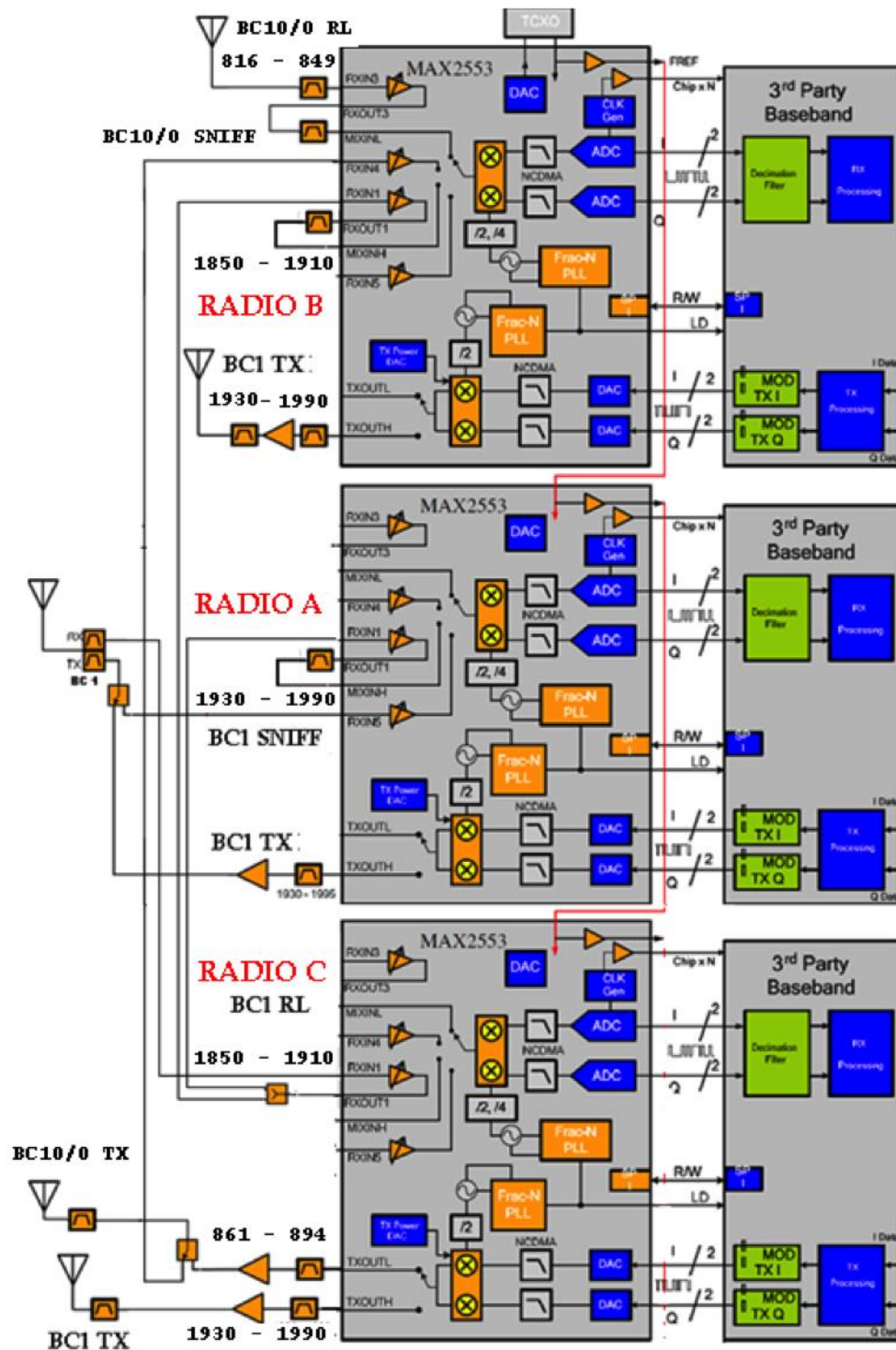
AAA: Authentication, Authorization, and Accounting

2. Introduction

This document describes two model variations for the train 8 Airvana femto cell radio sub-system. These model variations are required to support end of life component issues and substitutions. The two model variations are described as follows:

- 750723: This model supports current production BC1 saw devices, FL2-FL6, which are due to be discontinued at some later date.
- 750722: This model supports current production BC1 saw devices which are replacement devices for FL2-FL6 in the 750723 assembly, and this design is expected to supersede the 750722 assembly, but may be manufactured in conjunction with the 750723 assembly.

2.1 Radio Block Diagram



3. 750723 – 750722 Design Variation

3.1 Saw Component Variation

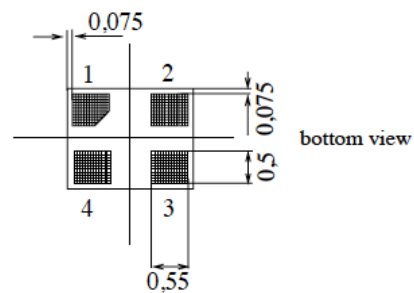
The 750723 contains BC1 saw devices FL2-FL6 which are becoming obsolete. These devices are used as filters for the BC1 transmit signals.

- The 750723 assembly contains the Airvana Part Number 130232 :Epcos B39202B9007E610
- The 750722 assembly contains the Airvana Part Number 130333: Epcos B39202B9477P810

Then major difference with these devices are the footprints they use. The B39202B9007E610 has the following pcb footprint.

Features

- Package size 2.0 x 1.6 x 0.68 mm³
- Package code DCS4F
- RoHS compatible
- Approx. weight 0.007 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- **Electrostatic Sensitive Device (ESD)**



The B39202B9477P810 has the following pcb footprint.

Features

- Package size 1.4 x 1.1 mm²
- max. Package height 0.45 mm
- RoHS compatible
- Approximate weight 0.003 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- **Electrostatic Sensitive Device (ESD)**
- **Moisture Sensitive Level 3**

