

Cinterion[®] ELS81-US HW Delta Description

Description of HW differences from ELS61-US B2 to ELS81-US B1 revisions

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1 Introduction

This document describes the differences and changes of Boxwood ELS81-US HW B1 version from ELS61-US HW B2 PCB(A) design.

1.1 Related Documents

- [1] Title
- [2] Title

2 Hardware differences and changes from ELS61-US B2 to ELS81-US B1

2.1 Overview

The major difference and change between ELS61-US B2 and ELS81-US B1 PCB design is only the HWID resistor to identify different products.

2.2 Schematic Changes

Details of schematic change shown as below:

Function	Page No.	BOXWOOD ELS61-US B2	BOXWOOD ELS81-US B1
HWID5	2		

2.3 PCB Placement Changes

Acturally there is no PCB layout change, and only the assembly parts is different for HWID resistor R109 shown as below:

Function	BOXWOOD ELS61-US B2	BOXWOOD ELS81-US B1

Figure 1: ELS81-US B1 faceplan assembly parts top view

2.4 Comparison of PCB Layout, Layer by Layer

ELS81-US shares the same PCB of ELS61-US.

2.5 BOM Changes

Details of BOM change shown as below:

Ref	BOXWOOD ELS61-US B2		BOXWOOD ELS81-US B1	
	SAP Part No.	Part Description	SAP Part No.	Part Description
R119	V24842-C472-J	RES 0201 4K7 5%		N.A.

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