

# HW Differences between Cinterion<sup>®</sup> ALAS5-AM Revisions 1.1.3, 1.1.4b, and 1.2

**Delta Report** 

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## 1 Introduction

This Delta Report applies to the Gemalto M2M module

Cinterion® ALAS5-AM

## 2 Differences between Revisions 1.1.3 and 1.1.4b

ALAS5-AM Revision 1.1.4b uses some components from other vendors than used for Revision 1.1.3 as listed in the table below:

| Component Reference | Component           | Vendor Rev. 1.1.3 | Vendor Rev. 1.1.4b |
|---------------------|---------------------|-------------------|--------------------|
|                     |                     |                   |                    |
| Z1015               | RX Filter Bd 2      | RF360             | Taiyo Yuden        |
| Z1200               | GNSS RX Filter      | RF360             | Taiyo Yuden        |
| D301                | NAND memory         | Nanya             | Micron             |
| Z910                | RX Filter Bd 8      | RF360             | Taiyo Yuden        |
| Z811, Z830          | Diplexer F1 F2      | TDK               | Walsin             |
| Z801                | Directional Coupler | TDK               | Walsin             |
| Z802                | TX lowpass filter   | TDK               | Walsin             |
|                     | GSM1800/1900        |                   |                    |

The intention behind using components from other vendors is to remove the dependency on a single vendor.

A lot of care is taken to select components that are equivalent in form, fit, and function.

Testing and qualification measurements show that there is no impact on GCF, PTCRB, FCC, RED.

## 3 Differences between Revisions 1.1.4b and 1.2

There are no hardware differences between ALAS5-AM Revision 1.1.4b and Revision 1.2.

## Background:

Rev. 1.1 was succeeded by Rev. 1.1.1, Rev. 1.1.2, Rev. 1.1.3, and Rev. 1.1.4b.

Now, in order to release a formally correct set of production data, Revision 1.1.4b was simply cloned to Revision 1.2.

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We work closely with global mobile network operators to ensure that Cinterion® modules evolve in sync with wireless networks, providing a seamless migration path to protect your IoT technology investment.

Cinterion products integrate seamlessly with Gemalto identity modules, security solutions and licensing and monetization solutions, to streamline development timelines and provide cost efficiencies that improve the bottom line. As an experienced software provider, we help customers manage connectivity, security and quality of service for the long lifecycle of IoT solutions.

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