

# EXPERTISE

Expert Opinion of the Notified Body based on the Conformity Assessment according to Annex IV of the R&TTE Directive 1999/5/EC

**Eurofins Product Service GmbH**

EU Identification Number **0681**

recognized by



Bundesnetzagentur

BNetzA-bS-02/51-53

Registration Number: **U9M20010-8000-C**

Certificate Holder: **Alien Technology Corporation  
18220 Butterfield Blvd.  
Morgan Hill, CA 95037  
USA**

Model Name: **ALR9900+**  
Brand Name:

Product Description: **RFID Transceiver**

Applied Standards: Radio: EN 300220-1 V2.1.1 (04/2006), EN 300220-2 V2.1.2 (06/2007)  
EN 302208-1 V1.3.1 (02/2010), EN 302208-2 V1.3.1 (02/2010)  
EMC: EN 301489-1 V1.8.1 (04/2008), EN 301489-3 V1.4.1 (08/2003)  
Safety: EN 60950-1:2001+A11:2004  
Health: Not assessed

This certificate is issued in accordance with Annex IV of the R&TTE Directive 1999/5/EC of 9<sup>th</sup> March, 1999 and is only valid in conjunction with the following annex: - 1 -

Marking Example according to Article 12 of the R&TTE Directive:

**CE0681** 



Reichenwalde, 30. March, 2010

Ort, Ausstellungsdatum  
Place, Date of Issue



Unterzeichnet von/Signed by Thomas Dickten  
Benannte Stelle/ Notified Body

**Eurofins Product Service GmbH**

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## Opinion on the essential requirements

Article 3.1a) health and safety	No remarks
Article 3.1.b) electromagnetic compatibility	No remarks
Article 3.2 effective use of the radio spectrum	No remarks

Manufacturer(s)	Alien Technology Corporation 18220 Butterfield Blvd. Morgan Hill, CA 95037 USA
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## System description

Frequency band(s)	(1) 865 - 868 MHz (2) 869.400 – 869.650 MHz
Operating frequency/ Alignment range	(1) 865.7 MHz; 866.3 MHz; 866.9 MHz; 867.5 MHz (2) 869.525 MHz
Number of Channels/ Channel spacing	(1) 4 / 600 kHz (2) 1
Transmit power	(1) max. 1.932 W (e.r.p.) (2) max. 500 mW (e.r.p.)
Type of antenna	External antenna(s): <ul style="list-style-type: none"> <li>- Indoor circular polarizing antenna, gain max. 9dBi for frequency band (1)</li> <li>- Indoor antennas for frequency band (2):               <ul style="list-style-type: none"> <li>- Circular polarization, gain max. 9 dBi</li> <li>- Linear polarization, gain max. 8 dBi</li> <li>- Near field, gain max. 6 dBi</li> </ul> </li> </ul>
Mode of operation (simplex/duplex)	Simplex
Duty cycle * (access protocol, if applicable)	73.3 %
Comments	<p>Device is for indoor use only and does not have implemented the use of "Listen Before Talk".</p> <p>In the case of radio equipment using frequency bands whose use is not harmonised throughout the Community, the manufacturer or his authorised representative established within the Community or the person responsible for placing the equipment on the market shall notify the national authority responsible in the relevant Member State for spectrum management of the intention to place such equipment on its national market. This notification shall be given no less than four weeks in advance of the start of placing on the market and shall provide information about the radio characteristics of the equipment (in particular frequency bands, channel spacing, type of modulation and RF-power) and the identification number of the notified body referred to in Annex IV or V.</p>

## Technical Construction File

Essential components of the technical construction file:

### Test report(s)

**Radio:** ALNT37-B2 Rev. A, MiCOM Labs  
ALNT37-B5 Rev. A, MiCOM Labs

**EMC:** ALNT37-B7 Rev. A, MiCOM Labs

**Safety:** 30782451.001, TUV Rheinland of North America, Inc.

User manual  
Technical Documentation Model No. **ALR9900+**  
including: PCB Layout  
Circuit diagram  
Part list

Declarations:

Acc. to article 3.2 : Radio  
Acc. to article 3.1b : EMC  
Acc. to article 3.1a : Safety

## Obligations of the Certificate Holder

An opinion is valid at the time of issue and relates only to the situation at that time. It is the manufacturer's responsibility to seek an updated opinion if they believe that a change in design, manufacture, requirements or any other matter calls in to question the validity of the opinion.

In this sense, there is no "duration of validity" for a notified body opinion. It remains valid for so long as the circumstances relevant to its issue remain unchanged. If there is a change, then it is the responsibility of the manufacturer to determine the need for a new or updated opinion.

The Declaration of Conformity must be supplied with each product; it can be a separated leaflet or be printed in the users manual or packaging.

Equipment, which at the time of placing on the market contains as an integral part an R&TTE component, which should not be removed by the user, should be marked according to the R&TTE Directive. In addition in its user manual it should comply with the R&TTE Directive and e.g. indicate geographic limitations of use.