

## Statement for User Manual

# Advanced Telecommunication Module (ATM) ATM-01 T1-RoW-4G

Rev. 1.1

Release



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*PEIKER acustic Confidential and Proprietary*

Name of model: ATM-01 T1-RoW-4G  
Internal peiker product ID: 2609-074-184-51

Status: Release  
Revision: 1.1  
Date: 01.10.2014

## 1 Change documentation

Date	Revision	Name	Changes / Comment
11.09.2014	Rev 1.0	M. Fleckenstein	Initial version
01.10.2014	Rev 1.1	M. Fleckenstein	Added antenna gain for 2,6 GHz / French warning statement

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## 2 Introduction

### 2.1. Scope

#### 2.1.1. Purpose of the document

The Advanced Telecommunication Module (ATM) trunk version is manufactured by peiker acustic GmbH & Co. KG (grantee) and sold as an OEM product.

According to the US Code of Federal Regulations (47 CFR 2.909, 2.927, 2.931, 2.1033, 15.15(b) etc.), the grantee must ensure the end-user has the applicable and appropriate operating instructions for the device. In the case of this product the grantee must notify the OEM to notify the end-user.

Peiker acustic GmbH & Co. KG will supply this document to the reseller or distributor to inform him what must be included in the end user's manual for the commercial product and which installations guidelines for the antenna are applicable.

#### 2.1.2. General information

The ATM is assembled in the car during production. There are no other distribution channels than assembly in the cars production line or spare part replacement within car service. Please be advised that this product will need special trained professionals in configuring and installing the product. The product will be distributed through controlled distribution channel which has special trained professionals to install this product and will not be sold directly to the general public through retail stores.

The ATM is mounted invisible to the driver in the car behind the trunk cover panels. There are no direct interfaces to the driver or passengers. The ATM is connected to the cars internal bus and control systems. The ATM does not contain any internal antenna; the external antenna of the car is used.

#### 2.1.3. Contact information

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### 3 Antenna installation

To comply with the RF exposure requirements of the FCC following requirements have to be fulfilled:

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operated in conjunction with any antenna or transmitter, except in accordance with FCC multitransmitter product procedures. This device is to be used in mobile or fixed applications only.

Following technologies and frequency bands are supported by the device ATM-01 T1-RoW-4G:

RAT	frequency (Mhz)	band
GSM	850,900,1800,1900	Quad band
WCDMA	900,800,850,2100	VIII,VI,V,I
LTE	850,2600,850,1800,2100	19,7,5,3,1

For mobile and fixed operating configurations the antenna gain, including cable loss, must not exceed

1.47 dBd at 800 - 900 MHz

3.01 dBi at 1800 - 2100 MHz

9.21 dBi at 2600 MHz

for satisfying RF exposure compliance.

It must be ensured by the OEM that the end user has no manual instructions to remove or install the RF unit of the device.

## 4 Warning Statements for the User Manual

The following certification markings and hints should be printed in the end user's manual:

### 4.1. US /Canada

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

*Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:*

- (1) l'appareil ne doit pas produire de brouillage, et*
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

### **Radiofrequency radiation exposure Information:**

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### ***Information sur l'exposition au rayonnement électromagnétique :***

*Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.*

### **Modifications**

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by peiker acustic GmbH & Co. KG could void the user's authority to operate the equipment.

## **5 Battery replacement**

Please be advised that this product will need special trained professionals in configuring and installing the product within the car.

To open the battery compartment, push down the battery lid at the front of the device and shift the lid sideward.

Disconnect the battery connector in order to push the locking lever and pull the connector at the same time. Release the battery and replace it with the replacement part. Push the battery connector and close the battery compartment by shifting the lid towards the housing.