

## EU Declaration of Conformity (DoC-17012000653-B)

This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration is in conformity with the relevant Union harmonization legislation:

2014/53/EU Radio Equipment Directive  
2011/65/EU on RoHS-2 for Restriction of the use of Hazardous Substances  
2013/35/EU on Occupational Exposure to Electromagnetic Fields  
2012/19/EU WEEE Waste Electrical and Electronic Equipment  
ECE Regulation No. 10 for Electrical/Electronic-Subassembly (Automotive Directive)  
1999/5/EC on Radio Equipment and Telecommunications Terminal Equipment (Non-RED Countries)

**Object of the Declaration:** MOTOTRBO Subscribers Mobile Radio

DM1400, DM1600, DM2600  
403-470Mhz, TX: 1-25W or 25-40W, 12.5/20/25kHz  
DM1400, 403-470MHz, TX 1-25W, numeric Display, Type Designator: MTA504D  
DM1400, 403-470MHz, TX 25-40W, numeric Display, Type Designator: MTA507D  
DM1600, 403-470MHz, TX 1-25W, alphanumeric Display, Type Designator: MTA504N  
DM1600, 403-470MHz, TX 25-40W, alphanumeric Display, Type Designator: MTA507N  
DM2600, 403-470MHz, TX 1-25W, alphanumeric Display, Type Designator: MTA504M  
DM2600, 403-470MHz, TX 25-40W, alphanumeric Display, Type Designator: MTA507M  
National Licensed Frequencies Only

**Superseded Remarks:** This DoC supersedes DOC-17012000653-B and DoC BER-214113-DC-A

**Manufacturer:** Motorola Solutions Germany GmbH, Am Borsigturm 130, 13507 Berlin, Germany

**Conformity:**

**Radio Equipment, Article 3(2):**

RED  
EN 300 086 V2.1.2,  
EN 300 113-2 v2.2.1,  
EN 300 219-2 v2.1.1  
RTTE  
EN 300 086-1 V1.4.1, EN 300 086-2 V1.3.1  
EN 300 113-1 V1.7.1, EN 300 113-2 V1.5.1  
EN 300 219-1 V1.2.1, EN 300 219-2 V1.1.1

**EMC, Article 3(1)b:**

EN 301 489-1 V1.9.2,  
EN 301 489-5 V1.3.1

**Safety, Article 3(1)a:**

EN 60950-1:2006/A11:2009/A1:2010/A12:2011/AC:2011/A2:2013  
Compliant with the ICNIRP (1998) Occupational / Controlled Exposure Limits  
EN 62311:2008

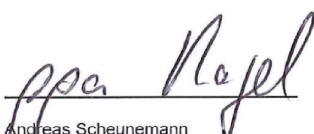
**Others:**

This product shows compliance with Automotive Regulation ECE10, marked with E24 10R- 041044

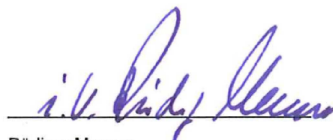
**Year of first application of CE mark: 2013**

The essential radio test suites, as defined in the quoted harmonized standards, have been performed.

BERLIN, 24-JUL-2017



Andreas Scheunemann  
Managing Director Motorola Solutions Germany GmbH,  
Am Borsigturm 130, D-13507 Berlin, Germany



Rüdiger Maurer  
Director of Product Safety and Regulatory Compliance,  
Motorola Solutions Germany GmbH

**Rev. 1 Addendum to EU Declaration of Conformity (DoC-17012000653-B)**

This declaration of conformity is an addendum to above referenced product DoC and is issued under the sole responsibility of the manufacturer.

The accessories described below are in conformity with the relevant Union harmonisation legislation.

The listed accessories are certified and approved for use with the radios listed in the referenced DoC.

**AUDIO**

GMMN4065C	VISOR MOUNTED MICROPHONE
HSN8145B	7.5W EXTERNAL SPKR
PMLN6481A	TELEPHONE STYLE HANDSET
PMLN6544A	MOTOTRBO SERIES 02 OPT BRD UPGRADE KIT
PMMN4089A	MICROPHONE
PMMN4090A	MICROPHONE
PMMN4091A	HEAVY DUTY PALM MICROPHONE
RLN4836AR	EMERGENCY FOOT SWITCH
RLN4857B	PUSHBUTTON PTT
RLN4858A	GOOSENECK PTT
RSN4001A	EXT SPKR 13 W

**OTHERS**

HKN4137A/B	Mobile Pwr Cable 10 FT, 14 AWG, 15A
HKN4191B/C	Mobile Pwr Cable 10 FT, 12 AWG, 20A
HKN4192B/C	Mobile Pwr Cable 20 FT, 10 AWG, 20A
HKN9327BR/CR	Ignition Switch Cable
PMKN4157A	In-Line DC Power Sense Cable

**SOFTWARE**

The installed radio software is under the full control of the manufacturer with no access by the user and is in compliance with the relevant directives.

The above accessories are shown with their global part numbers. In practice the accessory will have a regional prefix. Prefixes are purely done for regional kittings - primarily the manual (languages) and packaging. Prefixes are MD for European countries, AA of United States and AZ for Asia/Pacific region.

Note: A copy of the above referenced signed and dated Declaration of Conformity can be obtained either via your local Motorola help desk, via your dealer from where you purchased this radio or alternatively you can send an email request to [manufacturerdeclaration.eu@motorolasolutions.com](mailto:manufacturerdeclaration.eu@motorolasolutions.com), or via <http://www.motorolasolutions.com/Business/XU-EN/BMS+Resource+Library>

## Electromagnetic Energy (EME) Test Laboratory

### Conformity of models listed with applicable RF energy exposure limits

This declaration confirms compliance of Motorola Solutions mobile radio(s) with certified accessories

Model Number	Type Designator	Description
PMUE4168A	N/A	UHF1 403-470 MHz, 1-25W, 12.5/20/25kHz, numeric display
MDM02QNH9JA2AN	MTA504M	DM2600, UHF1 403-470 MHz, 1-25W, 12.5/20/25kHz, alphanumeric display
MDM01QNH9JA2AN/ MDM01QNH9JC2AN	MTA504N	DM1600, UHF1 403-470 MHz, 1-25W, 12.5/20/25kHz, alphanumeric display
MDM01QNC9JC2AN/ MDM01QNC9JA2AN	MTA504D	DM1400, UHF1 403-470 MHz, 1-25W, 12.5/20/25kHz, numeric display

with the ICNIRP<sup>1</sup> limits for radio frequency (RF) energy exposure. The ICNIRP guidelines were developed by an independent scientific organization after thorough evaluations of relevant research studies, and have been endorsed by the World Health Organization (WHO). The ICNIRP guidelines are also referenced in the European Directive 2013/35/EU,<sup>2</sup> forming the basis of the applicable radio-frequency exposure framework for workers.

For these radio models, RF exposure evaluations were carried out in accordance with harmonised<sup>3</sup> standard EN 62311:2008,<sup>4</sup> following best practices defined in IEEE Std C95.3,<sup>5</sup> with the corresponding results scaled to the applicable highest certified power levels in all tested frequency bands.

RF exposure evaluations were performed at the Motorola Solutions Electromagnetic Energy (EME) laboratory, which has been certified to ISO/IEC Guide 17025 by an independent accrediting agency, the American Association for Laboratory Accreditation (A2LA), in accordance with the applicable ISO/IEC accreditation guidelines.

As certified in the Motorola Solutions EME lab, these radio models, at the highest applicable certified power levels, are compliant with the applicable exposure limits defined by ICNIRP.

Sincerely,

*Tiong*  
**Tiong Nguk Ing**  
Digital Engineering  
 Tiong Nguk Ing  
 Director of Engineering  
 Penang EME Laboratory  
 100, Jalan Jelutong  
 11600 Jelutong, Penang  
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Tiong Nguk Ing on behalf of Pei Loo Tey  
 Penang EME Laboratory Manager  
 DATE : 24-JULY-2017

<sup>1</sup> ICNIRP (1998): International Commission on Non Ionizing Radiation Protection, "Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (Up to 300 GHz)" Health Physics, vol. 75, no. 4, pp. 494-522.

<sup>2</sup> Directive 2013/35/EU of the European Parliament and of the Council of 26 June 2013 on the minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents (electromagnetic fields) (20th individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC) and repealing Directive 2004/40/EC.

<sup>3</sup> European Commission communication in the framework of the implementation of Directive 1999/5/EC of the European Parliament and of the Council on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity. Official Journal of the European Union 2016/C 249/01.

<sup>4</sup> EN 62311:2008 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz). Although the standard is defined for the general public, it provides guidance for occupational exposures in Annex B.

<sup>5</sup> IEEE Std C95.3-2010 IEEE Recommended Practice for Measurements and Computations of Electric, Magnetic, and Electromagnetic Fields with Respect to Human Exposure to Such Fields, 0 Hz to 100 kHz.

## Electromagnetic Energy (EME) Test Laboratory

### Conformity of models listed with applicable RF energy exposure limits

This declaration confirms compliance of Motorola Solutions mobile radio(s) with certified accessories

Model Number	Type Designator	Description
PMUE4164A	N/A	UHF1 403-470 MHz, 25-40W, 12.5/20/25kHz, alphanumeric display
MDM02QPH9JA2AN	MTA507M	DM2600, UHF1 403-470 MHz, 25-40W, 12.5/20/25kHz, alphanumeric display
MDM01QPH9JC2AN/ MDM01QPH9JA2AN	MTA507N	DM1600, UHF1 403-470 MHz, 25-40W, 12.5/20/25kHz, alphanumeric display
MDM01QPC9JC2AN/ MDM01QPC9JA2AN	MTA507D	DM1400, UHF1 403-470 MHz, 25-40W, 12.5/20/25kHz, numeric display

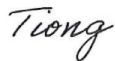
with the ICNIRP<sup>1</sup> limits for radio frequency (RF) energy exposure. The ICNIRP guidelines were developed by an independent scientific organization after thorough evaluations of relevant research studies, and have been endorsed by the World Health Organization (WHO). The ICNIRP guidelines are also referenced in the European Directive 2013/35/EU,<sup>2</sup> forming the basis of the applicable radio-frequency exposure framework for workers.

For these radio models, RF exposure evaluations were carried out in accordance with harmonised<sup>3</sup> standard EN 62311:2008,<sup>4</sup> following best practices defined in IEEE Std C95.3,<sup>5</sup> with the corresponding results scaled to the applicable highest certified power levels in all tested frequency bands.

RF exposure evaluations were performed at the Motorola Solutions Electromagnetic Energy (EME) laboratory, which has been certified to ISO/IEC Guide 17025 by an independent accrediting agency, the American Association for Laboratory Accreditation (A2LA), in accordance with the applicable ISO/IEC accreditation guidelines.

As certified in the Motorola Solutions EME lab, these radio models, at the highest applicable certified power levels, are compliant with the applicable exposure limits defined by ICNIRP.

Sincerely,



**Tiong  
Nguk  
Ing**

Digitally signed by  
Tiong Nguk Ing  
DN: cn=Tiong Nguk Ing,  
ou=Motorola Solutions,  
ou=Regulatory  
Compliance Lab,  
email=tiiong@motorola  
solutions.com, c=MY  
Date: 2017.07.24  
14:11:03 +0800

Tiong Nguk Ing on behalf of Pei Loo Tey  
 Penang EME Laboratory Manager  
 DATE : 24-JULY-2017

<sup>1</sup> ICNIRP (1998): International Commission on Non Ionizing Radiation Protection, "Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (Up to 300 GHz)" Health Physics, vol. 75, no. 4, pp. 494-522.

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