

ThoR H2020 814523



Horizon 2020 Grant Agreement no: 814523

Terahertz end-to-end wireless systems supporting ultra-high data Rate applications

ThoR

Deliverable D7.10

Summary of Project Newsletters

Coordinator (EU): Thomas Kürner
 Organisation: Technische Universität Braunschweig

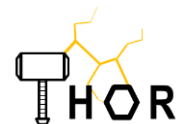
Coordinator (Japan): Tetsuya Kawanshi
 Organisation: Waseda University

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 Vivid Components**

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Dissemination level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	



1. Executive summary

Six newsletters have been issued during the ThoR project. This document summarises the topics covered in each of the newsletters.

The newsletters were circulated to the ThoR Community mailing list and are available from the website:

<https://thorproject.eu/results/newsletters/>

2. Introduction

Six newsletters have been issued during the project. These were circulated to the ThoR Community mailing list and are available from the website:

<https://thorproject.eu/results/newsletters/>

The content of the newsletters was as follows:

2.1. ThoR newsletter #1 (Dec-2018)

This introductory newsletter included:

- A brief overview of the project and its objectives
- An outline of the ICT-09-2017 Cluster of related projects
- Information on an EC THz communications workshop on 07-Mar-2019
- Results from spectrum sharing studies relevant to WRC 2019
- World first experimental demonstration of a superheterodyne 300 GHz wireless link!



2.2. ThoR newsletter #2 (Jun-2019)

This newsletter included:

- Near-field measurements and antenna characterisation at 300 GHz by Gifu University
- 300 GHz front end development by Fraunhofer IAF and Univ. Stuttgart
- ThoR DEMO-1 and circuit design by the project team
- Development of a high power TWTA at 300 GHz band by NEC.



2.3. ThoR newsletter #3 (Dec-2019)

This newsletter includes:

- ThoR workshop in Japan (20-Sep-2019; University of Waseda)
- Save the date! 3rd Towards THz Comms Workshop 12-13 Mar-2020 at IMEC
- Overview of 5G/beyond 5G requirements wireless transport links from Deutsche Telekom
- Review of the ThoR parallelisation of 70/80 GHz transceiver modules from Siklu
- An update on measurement of 300 GHz band high-gain antennas at CIT.





2.4. ThoR Newsletter #4 (Aug-2020)

This newsletter included:

- New date for the 3rd Towards THz Comms Workshop (3TTCW)
- Photonic LO progress at University of Lille
- Modem bank parallelisation in ThoR by Siklu
- Implications of WRC 19 AI 1.15 for THz comms (TUBS/CIT).



2.5. ThoR Newsletter #5 (Mar-2021)

This newsletter included:

- 3TTCW and EuCAP 2021
- Automatic planning algorithms for THz comms by TU Braunschweig
- 300 GHz link design and interference study by Waseda University
- Three upcoming books or journals on THz comms
- 300 GHz solid state power amplifier development at Fraunhofer IAF
- Characterisation of ThoR demo modules by University of Stuttgart.



2.6. ThoR Newsletter #6 (May-2022)

This final newsletter included:

- Flexible waveguide for millimetre and THz systems
- Deutsche Telekom comments on future implementations of ThoR
- Development of E-band modems in ThoR by Siklu
- Travelling wave tube amplifier advances at NEC and Waseda
- Near-field measurement for antenna testing at Gifu University
- Superheterodyne H-band frontend from University of Stuttgart
- 300 GHz mHEMT high power amplifiers from Fraunhofer IAF
- System-level testing of the ThoR frontends by University of Lille
- Update on the ThoR final workshop and demonstration.

