

**IMT cellular networks;
Harmonised EN covering the essential requirements of
article 3.2 of the R&TTE Directive;
Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA)
User Equipment (UE)**
(ETSI EN 301 908-13 V7.1.1 (2015-12))

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Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA)
User Equipment (UE)**

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Foreword

This Harmonised European Standard (EN) has been produced by ETSI Technical Committee Mobile Standards Group (MSG).

The present document has been produced by ETSI in response to mandates M/284 and M/406 issued from the European Commission under Directive 98/34/EC [i.1] as amended by Directive 98/48/EC [i.10].

The title and reference to the present document are intended to be included in the publication in the Official Journal of the European Union of titles and references of Harmonised Standard under the Directive 1999/5/EC [i.2].

The requirements relevant to Directive 1999/5/EC [i.2] are summarized in annex A.

The present document is part 13 of a multi-part deliverable. Full details of the entire series can be found in part 1 [i.13].

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Modal verbs terminology

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Introduction

The present document is part of a set of standards developed by ETSI and is designed to fit in a modular structure to cover all radio and telecommunications terminal equipment within the scope of the R&TTE Directive [i.2]. The modular structure is shown in ETSI EG 201 399 [i.3].

1 Scope

The present document applies to the following radio equipment type:

- User Equipment for Evolved Universal Terrestrial Radio Access (E-UTRA).

This radio equipment type is capable of operating in all or any part of the frequency bands given in tables from 1-1 through 1-5.

Table 1-1: E-UTRA UE operating bands

E-UTRA Band	Direction of UE transmission	E-UTRA operating bands
1	Transmit	1 920 MHz to 1 980 MHz
	Receive	2 110 MHz to 2 170 MHz
3	Transmit	1 710 MHz to 1 785 MHz
	Receive	1 805 MHz to 1 880 MHz
7	Transmit	2 500 MHz to 2 570 MHz
	Receive	2 620 MHz to 2 690 MHz
8	Transmit	880 MHz to 915 MHz
	Receive	925 MHz to 960 MHz
20	Transmit	832 MHz to 862 MHz
	Receive	791 MHz to 821 MHz
22	Transmit	3 410 MHz to 3 490 MHz
	Receive	3 510 MHz to 3 590 MHz
28	Transmit	703 MHz to 748 MHz
	Receive	758 MHz to 803 MHz
32 (note)	Transmit	N/A
	Receive	1 452 MHz to 1 496 MHz
33	Transmit and Receive	1 900 MHz to 1 920 MHz
34	Transmit and Receive	2 010 MHz to 2 025 MHz
38	Transmit and Receive	2 570 MHz to 2 620 MHz
40	Transmit and Receive	2 300 MHz to 2 400 MHz
42	Transmit and Receive	3 400 MHz to 3 600 MHz
43	Transmit and Receive	3 600 MHz to 3 800 MHz

NOTE: Restricted to E-UTRA operation when carrier aggregation is configured. The downlink operating band is paired with the uplink operating band (external) of the carrier aggregation configuration that is supporting the configured Pcell.

Table 1-2: E-UTRA UE Intra-band contiguous CA operating bands

E-UTRA CA Band	E-UTRA Band	Direction of UE transmission	E-UTRA operating bands
CA_1	1	Transmit	1 920 MHz to 1 980 MHz
		Receive	2 110 MHz to 2 170 MHz
CA_3	3	Transmit	1 710 MHz to 1 785 MHz
		Receive	1 805 MHz to 1 880 MHz
CA_7	7	Transmit	2 500 MHz to 2 570 MHz
		Receive	2 620 MHz to 2 690 MHz
CA_38	38	Transmit and Receive	2 570 MHz to 2 620 MHz
CA_40	40	Transmit and Receive	2 300 MHz to 2 400 MHz
CA_42	42	Transmit and Receive	3 400 MHz to 3 600 MHz