

European Union RED Directive Update - ETSI EN 300 328 V2.2.2

Introduction

The standard of ETSI EN 300 328 specifies requirements for data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques. **Wireless local area network (WLAN), Bluetooth and ZigBee** products are required to fulfill this standard. Since there are many devices operate in the 2.4 GHz band, this standard ensures that radio equipment does not cause interference with each other and user's health hazard. The new standard states a clear minimum requirement on the receiver in order to improve spectrum utilization.

- ETSI EN 300 328 **Version 2.2.2 – Date of adoption: 6 February 2020**
- ETSI EN 300 328 Version 2.1.1 – Date of withdrawal: 6 August 2021

Major changes

- **Transmitter unwanted emissions in the spurious domain** (Clause 4.3.1.10)

Frequency Range: 694 MHz – 862 MHz

Limit	ETSI EN 300 328 V2.2.2 (New)	ETSI EN 300 328 V2.1.1 (Old)
Maximum power / Bandwidth	-36 dBm / 100 kHz	-54 dBm / 100 kHz

- **Receiver Blocking** (Clause 4.3.1.12)

Limit

Increases size of blocking signal and range of wanted signal under assumption of EUT meets minimum performance requirements.

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- **Receiver Blocking** (Clause 4.3.1.12)

Equipment Category

	ETSI EN 300 328 V2.2.2 (New)	ETSI EN 300 328 V2.1.1 (Old)
1	Equipment: Adaptive Max. RF Output Power: ≥ 10 dBm e.i.r.p.	Equipment: Adaptive Max. RF Output Power: ≥ 10 dBm e.i.r.p.
2	Equipment : Adaptive/Non-Adaptive Max. RF Output Power: > 0 to ≤ 10 dBm e.i.r.p.	Equipment: Adaptive Max. RF Output Power: ≤ 10 dBm e.i.r.p.
	Equipment: Non-Adaptive MU factor: 1 to 10 %	Equipment: Non-Adaptive MU factor: 1 to 10 %
3	Equipment: Adaptive/Non-Adaptive Max. RF Output Power: ≤ 0 dBm e.i.r.p.	Equipment: Adaptive Max. RF Output Power: ≤ 0 dBm e.i.r.p.
	Equipment: Non-Adaptive MU factor: ≤ 1 %	Equipment: Non-Adaptive MU factor: ≤ 1 %

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