
IR 2030 – UK Interface Requirements 2030

Licence Exempt Short Range Devices

Publication Date: May 2022

1. Table: Minimum requirements for the use of Short Range Devices

	Normative Part								Informative Part
Interface / Notification number / Date	Application	Comments to application	Frequency band	Comments to frequency band	Maximum transmit power / Power spectral density / Field strength	Comments to Maximum transmit power / Power spectral density / Field strength	Channelling	Channel access and occupation rules	Reference
IR 2030/1/47	Non-specific short- range devices	<p>This set of usage conditions is only available for short range devices in data networks. All mobile and nomadic devices within the data network controlled by a master network access point.</p> <p>Airborne use is not permitted.</p>	870 - 874.4 MHz		500 mW e.r.p.	Adaptive Power Control (APC) required, alternatively other mitigation techniques which achieve at least an equivalent level of spectrum compatibility.	Bandwidth: ≤ 200 kHz	<p>Duty cycle: ≤ 10 % for network access points, ≤ 2.5 % otherwise.</p> <p>Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in relevant designated standards specified in the notice of publication must be used.</p>	

IR 2030 Licence Exempt Short Range Devices (April 2021)

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IR2030/1/49	Non-specific short- range devices	This set of usage conditions is only available for short-range devices in data networks. All mobile and nomadic devices within the data network shall be controlled by a master network access point. Airborne use is not permitted.	917.3 - 918.9 MHz		500 mW e.r.p.	Transmissions only permitted within the frequency ranges 917.3 - 917.7 MHz, 918.5 - 918.9 MHz Adaptive Power Control (APC) required, alternatively other mitigation techniques which achieve at least an equivalent level of spectrum compatibility	Bandwidth: ≤ 200 kHz Duty cycle: ≤ 10 % for network access points Duty cycle: ≤ 2.5 % otherwise	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in designated standards specified in the notice of publication must be used.	
IR2030/1/48	Non-specific short- range devices	This set of usage conditions is only available for short-range devices in data networks. All mobile and nomadic devices within the data network shall be controlled by a master network access point	917.4 - 919.4 MHz		25 mW e.r.p.		Bandwidth: ≤ 600 kHz	Duty cycle: ≤ 1 % Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in designated standards specified in the notice of publication must be used.	

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IR 2030/7/5	Wideband Data Transmission Systems	This set of usage conditions is only available for wideband short-range devices in data networks. All mobile and nomadic devices within the data network shall be controlled by a master network access point.	917.4 - 919.4 MHz		25 mW e.r.p.	Bandwidth \geq 600 kHz	Bandwidth: \leq 1 MHz Duty cycle: \leq 10 % for network access points Duty cycle: \leq 2.8 % otherwise	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in designated standards specified in the notice of publication must be used.	

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IR2030/8/1a	Wireless Access Systems (WAS)	Airborne use outside of an aircraft is only permitted in 5170 – 5250 MHz. The apparatus may only be used within a building or aircraft or any other enclosed space with attenuation characteristics at least as strong as those of either a building or an aircraft, and only to establish a connection with a station or apparatus within the same building or aircraft or other enclosed space.	5150- 5250 MHz		Maximum mean e.i.r.p of 200 mW and maximum mean e.i.r.p density of 10 mW/MHz in any 1 MHz band.			Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in designated standards specified in the notice of publication must be used.	EN 301 893
IR2030/8/1b	Wireless Access Systems (WAS)	Aeronautical mobile use is not permitted. The apparatus may only be used within a building or aircraft or any other enclosed space with attenuation characteristics at	5250- 5350 MHz		Maximum mean e.i.r.p of 200 mW and maximum mean e.i.r.p density of 10 mW/MHz in any 1 MHz band.			Techniques to access spectrum and mitigate interference, including Dynamic Frequency Selection (DFS) and transmit power control (TPC), that provide at least equivalent performance to the	EN 301 893

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		least as strong as those of either a building or an aircraft, and only to establish a connection with a station or apparatus within the same building or aircraft or other enclosed space.						techniques described in designated standards specified in the notice of publication must be used.	
IR2030/14/23	Safety Related Applications of Intelligent Transport Systems		5875– 5925 MHz		33 dBm e.i.r.p. and 23 dBm/MHz e.i.r.p.			Techniques to access spectrum and mitigate interference including, transmit power control (TPC) range of at least 30dB that provide at least equivalent performance to the techniques described in designated standards specified in the notice of publication must be used.	EN 302 571