

No. S 39

**TELECOMMUNICATIONS ORDER, 2001**  
**(S 38/2001)**

**TELECOMMUNICATIONS (EXEMPTION FROM SECTIONS 33, 34(1)/b/ AND 35)**  
**NOTIFICATION, 2018**

**ARRANGEMENT OF PARAGRAPHS**

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SCHEDULE 1 — EXEMPTION IN RESPECT OF LOCALISED ON-SITE INSTALLATION OR OPERATION OF EQUIPMENT

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TELECOMMUNICATIONS ORDER, 2001  
(S 38/2001)

TELECOMMUNICATIONS (EXEMPTION FROM SECTIONS 33, 34(1)/b/ AND 35)  
NOTIFICATION, 2018

In exercise of the power conferred by section 76 of the Telecommunications Order, 2001, the Minister of Communications hereby makes the following Notification —

**Citation and commencement**

1. This Notification may be cited as the Telecommunications (Exemption from sections 33, 34(1)/b/ and 35) Notification, 2018 and shall be deemed to have commenced on 1st April 2018.

**Exemption**

2. Sections 33, 34(1)/b/ and 35 do not apply to any person in respect of —

(a) the possession, establishment, installation, maintenance, provision or operation of a radio-communication equipment as defined in the Telecommunications (Radio-communication) Regulations, 2013 (S 86/2013) where the person has been permitted by the Authority to use any radio frequency band temporarily on an *ad hoc* basis under regulation 64(2) of those Regulations;

(b) the localised on-site installation or operation of the equipment specified in Schedule 1;

(c) the installation of an equipment specified in Schedule 2, where the installation is in accordance with the technical specifications on white space devices as the Authority may publish; and

(d) the operation of an equipment specified in the Schedule 2, where the operation is in accordance with the technical specifications on white space devices as the Authority may publish.

**SCHEDULE 1**  
(paragraph 2(b))

**EXEMPTION IN RESPECT OF LOCALISED  
ON-SITE INSTALLATION OR OPERATION OF EQUIPMENT\***

\* Other low power equipment that operate in radio frequency bands other than those listed in the table below, but which meet the output power limits specified for the same type of equipment are exempted from licensing as long as both the output power limits and the radio frequency bands are approved by the Authority.

<i>No.</i>	<i>Equipment</i>	<i>Authorised radio frequency bands</i>	<i>Maximum approved field strength or power</i>
1	On-site radio paging system	26.96 – 27.28 MHz 40.66 – 40.70 MHz	500 mW ERP
		151.125 MHz 151.150 MHz	1000 mW ERP
2	Multi-channel walkie talkie transceivers	446.00 – 446.4750 MHz	500 mW ERP
3	Induction loop system or Radio Frequency Identification (RFID) systems	16 – 150 kHz	66 dB $\mu$ A/m @ 3m
		150 – 5000 kHz	13.5 dB $\mu$ A/m @ 10m
		6765 – 6795 kHz	42 dB $\mu$ A/m @ 10m
		7400 – 8800 kHz	9 dB $\mu$ A/m @ 10m
		13.553 – 13.567 MHz	94 dB $\mu$ V/m @ 10m
4	Radio detection or alarm system	0.016 – 0.150 MHz	100 dB $\mu$ V/m @ 3m
		13.553 – 13.567 MHz	94 dB $\mu$ V/m @ 10m
		868.10 – 869.00 MHz	65 dB $\mu$ V/m @ 10m
		10.50 – 10.55 GHz	117 dB $\mu$ V/m @ 10m
		26.96 – 27.28 MHz	100 mW ERP
		146.35 – 146.50 MHz	
		240.15 – 240.30 MHz	
		300.00 – 300.30 MHz	
		312.00 – 316.00 MHz	
		444.40 – 444.80 MHz	

## SCHEDULE 1 — (Continued)

No.	Equipment	Authorised radio frequency bands	Maximum approved field strength or power
5	Wireless microphone	0.51 – 1.60 MHz	57 dB $\mu$ V/m @ 3m
		40.66 – 40.70 MHz	65 dB $\mu$ V/m @ 10m
		88.00 – 108.00 MHz	60 dB $\mu$ V/m @ 10m
		180.00 – 200.00 MHz	122 dB $\mu$ V/m @ 10m
		470.00 – 806.00 MHz	10 mW ERP
		487.00 – 507.00 MHz	112 dB $\mu$ V/m @ 10m
6	Remote controls of garage door, cameras, toys and miscellaneous devices	26.96 – 27.28 MHz	100 mW ERP
		34.995 – 35.225 MHz	
		40.665 – 40.695 MHz	500 mW ERP
		72.13 – 72.21 MHz	
		40.770 – 40.830 MHz	
7	Remote controls of aircraft and glider models, radio telemetry, telecommand system, detection and alarm systems	26.96 – 27.28 MHz	100 mW ERP 500 mW ERP
		29.70 – 30.00 MHz	
8	Remote control of cranes and loading arms	170.275 MHz 170.375 MHz 173.575 MHz 173.675 MHz	1000 mW ERP
9	Medical and biological telemetry	9 – 315 KHz	30 dB $\mu$ A/m @ 10m
		40.50 – 41.00 MHz	0.01 mW ERP
		216.00 – 217.00 MHz	25 $\mu$ W to 100 mW ERP
		454.00 – 454.50 MHz	2 mW ERP
		1427.00 – 1432.00 MHz	25 $\mu$ W to 100 mW ERP
		all frequencies	25 $\mu$ W ERP

## SCHEDULE 1 — (Continued)

No.	Equipment	Authorised radio frequency bands	Maximum approved field strength or power
10	Wireless modem or data communication system	72.080 MHz	1000 mW ERP
		72.200 MHz	
		72.400 MHz	
		72.600 MHz	
		158.275/162.875 MHz	
		158.325/162.925 MHz	
		453.7250/458.7250 MHz	
		453.7375/458.7375 MHz	
		453.7500/458.7500 MHz	
		453.7625/458.7625 MHz	
11	Short range radar systems such as automatic cruise control and collision warning systems for vehicle	76 – 77 GHz	37 dBm ERP when vehicle is in motion 23.5 dBm ERP for stationary
12	Radio telemetry or telecommand system	433.05 – 434.79 MHz	10 mW ERP
13	Radio telemetry, telecommand or Radio Frequency Identification (RFID) systems	866 – 869 MHz	500 mW ERP
		923 – 925 MHz	
14	Radio Frequency Identification (RFID) systems	920 – 925 MHz	500 mW ERP 2000 mW ERP
		433 MHz – 435 MHz	100 mW EIRP
		869 MHz – 870 MHz	500 mW ERP
15	Wireless LAN and broadband access or low power devices	5.470 – 5.725 GHz	1000 mW EIRP
16	Wireless video transmitter and other SRD applications	2.4000 – 2.4835 GHz	100 mW EIRP
		10.50 – 10.55 GHz	117 dB $\mu$ V/m @ 10m
		24.00 – 24.25 GHz	100 mW EIRP

## SCHEDULE 1 – (Continued)

No.	Equipment	Authorised radio frequency bands	Maximum approved field strength or power
17	Bluetooth	2.4000 – 2.4835 GHz	100 mW EIRP
18	Wireless LAN	2.4000 – 2.4835 GHz	200 mW EIRP
19	Wireless LAN	5.150 – 5.350 GHz	100 mW EIRP 1000 mW EIRP
20	SRD applications	5.725 – 5.850 GHz	100 mW EIRP
21	Wireless LAN and broadband access	5.725 – 5.850 GHz	1000 mW EIRP
		5.725 – 5.850 GHz	1000 mW EIRP 4000 mW EIRP
22	Digital enhanced cordless telecommunications	1880.00 – 1900.00 MHz	250 mW EIRP
23	Cordless telephone or wireless PABX	1.605 – 1.800 MHz	94 dB $\mu$ V/m @ 3m
		40.00 – 40.50 MHz	57 dB $\mu$ V/m @ 3m
		46.50 – 47.00 MHz	90 dB $\mu$ V/m @ 3m
		49.50 – 50.00 MHz	90 dB $\mu$ V/m @ 3m
		1880.00 – 1900.00 MHz	250 mW EIRP
24	Stand-alone GPS receivers	1,575.420 MHz	
25	Hearing aids and audio assistance aids	169.40 – 175.00 MHz	500 mW ERP
26	Ultra-wideband devices	Below 1.60 GHz	-90 dBm/MHz
		1.60 – 2.70 GHz	-85 dBm/MHz
		2.70 – 3.40 GHz	-70 dBm/MHz
		3.40 – 4.20 GHz	-41.3 dBm/MHz with interference mitigation techniques, otherwise - 70 dBm/MHz
		4.20 – 4.80 GHz	- 41.3 dBm/MHz
		4.80 – 6.00 GHz	-70 dBm/MHz
		6.00 – 9.00 GHz	-41.3 dBm/MHz
		9.00 – 10.60 GHz	-65 dBm/MHz
		10.60 – 21.65 GHz	-85 dBm/MHz
		21.65 – 29.50 GHz	-41.3 dBm/MHz
		29.50 – 77.00 GHz	-85 dBm/MHz
		77.00 – 81.00 GHz	-3 dBm/MHz
		Above 81.00 GHz	-85 dBm/MHz

**SCHEDULE 2**  
(paragraph 2(c) and (d))

**EXEMPTION IN RESPECT OF INSTALLATION  
OR OPERATION OF EQUIPMENT**

<i>No.</i>	<i>Equipment</i>	<i>Authorised radio frequency bands</i>	<i>Maximum approved field strength or power</i>
1	Fixed white space devices	174 – 181 MHz	4,000 mW EIRP for all authorised frequency bands
		188 – 195 MHz	
		202 – 209 MHz	
		216 – 223 MHz	
		470 – 478 MHz	
		486 – 494 MHz	
		502 – 510 MHz	
		518 – 526 MHz	
		534 – 542 MHz	
		550 – 558 MHz	
		566 – 574 MHz	
		582 – 590 MHz	
		598 – 606 MHz	
		614 – 622 MHz	
		630 – 638 MHz	
		646 – 654 MHz	
		662 – 670 MHz	
		678 – 686 MHz	
		694 – 702 MHz	
		710 – 718 MHz	
		726 – 734 MHz	
2	Portable mode I white space devices	174 – 181 MHz	100 mW EIRP for all authorised frequency bands
		188 – 195 MHz	
		202 – 209 MHz	
		216 – 223 MHz	
		470 – 478 MHz	
		486 – 494 MHz	
		502 – 510 MHz	
		518 – 526 MHz	
		534 – 542 MHz	

## SCHEDULE 1 — (Continued)

No.	Equipment	Authorised radio frequency bands	Maximum approved field strength or power
		550 – 558 MHz	
		566 – 574 MHz	
		582 – 590 MHz	
		598 – 606 MHz	
		614 – 622 MHz	
		630 – 638 MHz	
		646 – 654 MHz	
		662 – 670 MHz	
		678 – 686 MHz	
		694 – 702 MHz	
		710 – 718 MHz	
		726 – 734 MHz	
3	Portable mode II white space devices	174 – 181 MHz	100 mW EIRP for all authorised frequency bands
		188 – 195 MHz	
		202 – 209 MHz	
		216 – 223 MHz	
		470 – 478 MHz	
		486 – 494 MHz	
		502 – 510 MHz	
		518 – 526 MHz	
		534 – 542 MHz	
		550 – 558 MHz	
		566 – 574 MHz	
		582 – 590 MHz	
		598 – 606 MHz	
		614 – 622 MHz	
		630 – 638 MHz	
		646 – 654 MHz	
		662 – 670 MHz	
		678 – 686 MHz	
		694 – 702 MHz	
		710 – 718 MHz	
		726 – 734 MHz	



Made this 1st. day of Zulkaedah, 1439 Hijriah corresponding to the 14th. day of July, 2018.

DATO SERI SETIA AWANG ABDUL MUTALIB  
BIN PEHIN ORANG KAYA SERI SETIA DATO PADUKA  
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