

Subject: Jan. 31st, 2007 Japan MIC Released the New 5GHz Band (W56)

February 1, 2007

Content:

New 5GHz band, 5470~5725MHz (W56) which has been opened on Jan. 31st, 2007 and new certification category certificate "TW" was issued for W56.

New 5GHz band: 802.11a W56:

5500, 5520, 5540, 5560, 5580, 5600, 5620, 5640, 5660, 5680, 5700MHz (20MHz interval
11 waves)

Certification Category: Article 2-1-19-3-2

Symbol of Ordinance of the Ministry: TW

No limitation of indoor use.

Japan current 5GHz bands using status:

5GHz band: 802.11a (W52)

5180, 5200, 5220, 5240MHz *4 channels

5GHz band: 802.11a (W53)

5260, 5280, 5300, 5320MHz *4 channels

New 5GHz-band: 802.11a (W56)

5500, 5520, 5540, 5560, 5580, 5600, 5620, 5640, 5660, 5680, 5700MHz *11 channels

Totally use 19 channels in 5GHz Band.

Note: For old band J52 (5170, 5190, 5210, and 5230MHz), CAB can certify present frequency channels until 2008/5/31. (For only Slave Equipment)

5GHz: 802.11a (W52, W53)

Article 2, Clause 1, Item 19-3

Symbol of Ordinance of the Ministry: WY

New 5GHz: 802.11a (W56)

Article 2, Clause 1, Item 19-3-2

Symbol of Ordinance of the Ministry: TW

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Technical requirements for 802.11a new 5GHz Band (W56) Data Communication System

Items	Technical standard	
Assigned frequency or designated frequency	5500/5520/5540/5560/5580/5600/5620/5640/5660/ 5680/5700MHz	
Frequency Tolerance	≤ 20 ppm	
Occupied Bandwidth	≤ 19.7 MHz	
Spread Bandwidth	≥ 5 Spreading factor	
Output Power	≤ 10 mW/MHz (OFDM, DSSS) ≤ 10 mW (ASK, FSK, PSK, etc)	
EIRP	≤ 50 mW/MHz	With TPC function
	≤ 25 mW/MHz	Without TPC function
Output Power Tolerance	+20%, -80%	
Spurious Emission	≤ 2.5 μ W/MHz	5460 MHz > fo, 5740 MHz < fo
Adjacent Channel Emitted Power	≥ 25 dB	fo \pm 20MHz (18MHz)
	≥ 40 dB	fo \pm 40MHz (18MHz)
Out-Band Leakage Power (EIRP)	≤ 12.5 μ W/MHz	5460 \leq fo < 5470 MHz
	≤ 12.5 μ W/MHz	5725 < fo \leq 5740 MHz
Emitted RF wave Strength of Receiver	≤ 4 nW	fo < 1GHz
	≤ 20 nW	1GHz \leq fo
Transmission Burst Length:	≤ 4 msec.	
Conditions for Use	In-Door Use and Out-Door Use	
Other requirements	DFS function(Six Radar Types), TPC function, Carrier Sensing Function	

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