目錄

1. Mobile Networks 3
1.1. Standards and Generations 3
1.2. Frequency Bands 3
1.2.1. GSM 3
1.2.2. UMTS 3
1.2.3. LTE 4
1.2.4. CDMA 5
1.3. Frequency Bands by Country 5
1.3.1. Australia 5
1.3.2. Japan 6
1.3.3. Taiwan 6
1.3.4. China 7

1. Mobile Networks

This is not a technical article. It is just for reference.

Some information may be outdated.

1.1. Standards and Generations

Standard	Protocols	Generations	Theoretical Speed
GSM	CSD	2G	9.6kbps
	HSCSD	2G	38.4kbps
	GPRS	2.5G	56~114kbps
	EDGE	2.75G	384kbps
UMTS	W-CDMA	3G	2Mbps
	TD-SCDMA	3G	
	HSPA	3.5G	14Mbps down, 2Mbps up
	HSPA+	3.75G	42.2Mbps
LTE	LTE-FDD	3.9G	300Mbps
	LTE-TDD	3.9G	
	LTE-A	4G	1Gbps
CDMA	cdmaOne	2G	14.4kbps(A), 115kbps(B)
	CDMA2000 1X	2.5G	153kbps
	CDMA2000 1xEVDO	3G	2.4Mbps(Rel.0), 3.1Mbps(Rev.A)

1.2. Frequency Bands

Being used only

1.2.1. GSM

- 850
- 900
- 1800
- 1900

1.2.2. UMTS

1.2.2.1. W-CDMA

- 1
- 2
- 4

- 5
- 8
- 9
- 11
- 19

Note: Band 9, 11 and 19 are only used in Japan.

1.2.2.2. TD-SCDMA

- 34
- 39

Note: TD-SCDMA is only used by China Mobile.

1.2.3. LTE

1.2.3.1. LTE-FDD

- 1
- 2
- 3
- 4
- 5
- 7
- 8
- 9
- 11
- 12
- 13
- 17
- 18
- 19
- 20
- 21
- 25
- 26
- 28
- 29
- 30
- 66
- 71

1.2.3.2. LTE-TDD

- 38
- 39

- 40
- 41

1.2.4. CDMA

- 0
- 1
- 4
- 6
- 10

Note: Band 4 is only used in Korea. Band 10 is only used in the USA.

1.3. Frequency Bands by Country

1.3.1. Australia

- GSM: 900, 1800
- UMTS: 1, 5, 8
- LTE: 1, 3, 5, 7, 28, 40

1.3.1.1. Optus

- GSM: 900
- UMTS: 1, 8
- LTE: 1, 3, 7, 28, 40

1.3.1.2. Telstra

- GSM: 900, 1800
- UMTS: 1, 5
- LTE: 1, 3, 28

1.3.1.3. Virgin Mobile

- GSM: 900
- UMTS: 1, 8
- LTE: 1, 3, 7, 28, 40

1.3.1.4. Vodafone

- GSM: 900
- UMTS: 1, 8
- LTE: 1, 3, 5

1.3.2. Japan

- UMTS: 1, 8, 9, 11, 19
- LTE: 1, 8, 9, 11, 18, 19, 21, 28, 41
- CDMA: 0, 6

1.3.2.1. KDDI au

Approved devices only

- LTE: 1, 11, 18, 41
- CDMA: 0, 6

1.3.2.2. NTT Docomo

- UMTS: 1, 9, 19
- LTE: 1, 9, 19, 21, 28

1.3.2.3. Softbank

- UMTS: 1, 8, 11
- LTE: 1, 8, 9, 41

1.3.3. Taiwan

- GSM: 900, 1800
- UMTS: 1, 8
- LTE: 3, 7, 8, 28

1.3.3.1. Chunghwa Telecom

- GSM: 900, 1800
- UMTS: 1
- LTE: 3, 7, 8

1.3.3.2. FarEasTone

- GSM: 900, 1800
- UMTS: 1
- LTE: 3, 28

1.3.3.3. T Star

- UMTS: 8

- LTE: 8

1.3.3.4. Taiwan Mobile

- GSM: 1800
- UMTS: 1
- LTE: 3, 28

1.3.4. China

- GSM: 900, 1800
- UMTS: 1, 34, 39
- LTE: 3, 38, 39, 40, 41
- CDMA: 0, 6

1.3.4.1. China Mobile

- GSM: 900, 1800
- UMTS: 34, 39
- LTE: 38, 39, 40, 41

1.3.4.2. China Telecom

Approved devices only

- LTE: 3, 41
- CDMA: 0, 6

1.3.4.3. China Unicom

- GSM: 900, 1800
- UMTS: 1
- LTE: 3, 41

From:
https://irdya.top/ - **漂流記**

Permanent link:
https://irdya.top/en/misc/mobile_networks

Last update: **2022/05/26 03:24**