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# Mobile Networks



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

Some information may be outdated.

## 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)

## Frequency Bands

### Being used only

#### GSM

- 850
- 900
- 1800
- 1900

#### UMTS

#### W-CDMA

- 1
- 2

- 4
- 5
- 8
- 9
- 11
- 19

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

## **TD-SCDMA**

- 34
- 39

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

## **LTE**

### **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

### **LTE-TDD**

- 38

- 39
- 40
- 41

## CDMA

- 0
- 1
- 4
- 6
- 10

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

# Frequency Bands by Country

## Australia

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

## Optus

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

## Telstra

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

## Virgin Mobile

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

## Vodafone

- GSM: 900
- UMTS: 1, 8

- LTE: 1, 3, 5

## Japan

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

### KDDI au

*Approved devices only*

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

### NTT Docomo

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

### Softbank

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

## Taiwan

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

### Chunghwa Telecom

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

### FarEasTone

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

## T Star

- UMTS: 8
- LTE: 8

## Taiwan Mobile

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

## China

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

## China Mobile

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

## China Telecom

*Approved devices only*

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

## China Unicom

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

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