

Network Parameters

Parameter	Valid Range	Example	Comments
Operator	N/A	Rogers, Bell, Telus	
MCC	001 to 999	302	3-digit Mobile Country Code
MNC	00 to 999	720	2 or 3-digit Mobile Network Code
Frequency	300 MHz to 100 GHz	1900 MHz or 2.6 GHz	
Band Number	1 to 100	B2, B66	
Band Name	N/A	PCS, AWS	

LTE Parameters

Parameter	Valid Range	Example	Comments
TAC	0 to 65535	25100	Tracking Area Code
eNodeB ID	0 to 1048575	50562	eNodeB Identity
Cell ID	0 to 255	23	Cell Identity
PCI	0 to 503	451	Physical Cell Identity
DL_EARFCN	0 to 70645	1075	E-UTRA Absolute RF Channel Number for DownLink
UL_EARFCN	18000 to 134280	19075	E-UTRA Absolute RF Channel Number for UpLink
Channel BW	1.4 to 20	15 MHz	Channel Width or Bandwidth, Has Only 6 Possible Values (1.4, 3, 5, 10, 15, or 20 MHz)
RSSI	-120 to -20	-80 dBm	Received Signal Strength Indication, Range in Android is [-113, -51]
RSRP	-140 to -40	-107 dBm	Reference Signal Received Power, Range in Android is [-140, -43]
RSRQ	-20 to -3	-12 dB	Reference Signal Received Quality
SINR	-20 to 50	25 dB	Signal-to-Interference-plus-Noise Ratio (typical values between -10 to 30)
CQI	1 to 15	10	Channel Quality Indicator (not reported by all devices)

HSPA / UMTS Parameters

Parameter	Valid Range	Example	Comments
LAC	0 to 65535	55100	Location Area Code
RNC ID	0 to 4095	43	Radio Network Controller Identity
Cell ID	0 to 65535	9942	Cell Identity
PSC	0 to 511	158	Primary Scrambling Code
DL_UARFCN	0 to 65535	412	UMTS Absolute RF Channel Number for DownLink
UL_UARFCN	0 to 65535	12	UMTS Absolute RF Channel Number for UpLink
RSSI	-120 to -20	-80 dBm	Received Signal Strength Indication
RSCP	-120 to -24	-90 dBm	Reference Signal Code Power
Ec/No	-24 to 1	-10 dB	Energy Per Chip Over the Noise Spectral Density (Android 11 only)

GSM / EDGE Parameters

Parameter	Valid Range	Example	Comments
LAC	0 to 65535	13000	Location Area Code
CID	0 to 65535	5781	Cell Identity
ARFCN	0 to 65535	129	UMTS Absolute RF Channel Number for DownLink
RSSI	-120 to -20	-80 dBm	Received Signal Strength Indication

Wi-Fi Parameters

Parameter	Example	Comments
SSID	iBwave	Service Set Identifier
BSSID	d8:c7:c8:44:32:40	Basic Service Set Identifier
Channel Number	1, 36	Wi-Fi Channel
RSSI	-65 dBm	Received Signal Strength Indication
CCI	4	Co-Channel Interference