

# Signal Quality

## 2G / GSM

RSSI [dBm]	Rating	Remarks
-51 to -59	very good	E-EDGE is possible (up to 1 Mbps)
-61 to -81	good	EDGE is possible (maximum data 220 kbps)
-93 to -101	poor	EDGE is possible but slow and instable
-102 to -113	insufficient	GPRS sometimes possible, unstable

## 3G / UMTS

RSSI [dBm]	Rating	Remarks
-51 to -65	very good	HSPA+ possible
-67 to -81	good	HSPA with up to 7.2 Mbps
-83 to -91	poor	Mostly stable connection
-93 to -101	poor	Mostly stable connection but no weather buffer
-103 to -107	insufficient	Instable connection
-109 to -113	insufficient	No network or instable connection

## 4G / LTE

RSSI [dBm]	Rating	Remarks
-25 to -49	very good	Excellent reception
-50 to -72	good	Very stable connection
-73 to -79	good	Stable connection, bad weather conditions may lower the bandwidth
-80 to -89	poor	Mostly stable connection but no weather buffer
-90 to -104	insufficient	Connection possible but link quality may vary according to weather conditions
-105 to -110	insufficient	Connection only under best conditions
-111 to -117	insufficient	No stable connection possible

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## Links

- [Empfangspegel-Vergleichstabellen](#)
- [Notwendige Antenneneigenschaften abhängig vom eigenen Standort](#)

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