

Waisman WiMax Base Station


Measurement of CINR, RSSI and Throughput


Equipment used:


- GPS Garmin nuvi 255w
- WiMax 802.16e USB adapter US210 (AWB)
- Laptop HP2135LA


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Created on Jun 17 · By [Pietro](#) · Updated Jul 18


 A1
CINR: 32 dB
RSSI: -59 dBm
Throughput: 5.75 Mbit/sec


 A10
CINR: 26 dB
RSSI: -75 dBm
Throughput: 2.95 Mbit/sec


 A11
CINR: 24 dB
RSSI: -79 dBm
Throughput: 5.71 Mbit/sec


 A12
CINR: 22 dB
RSSI: -80 dBm
Throughput: 5.73 Mbit/sec


 A13
CINR: 21 dB
RSSI: -80 dBm
Throughput: 5.81 Mbit/sec


 A14
CINR: 31 dB
RSSI: -56 dBm
Throughput: 5.27 Mbit/sec


 A15
CINR: 31 dB
RSSI: -56 dBm
Throughput: 5.07 Mbit/sec


 A16
CINR: 31 dB
RSSI: -55 dBm
Throughput: 5.51 Mbit/sec

 A17
CINR: 31 dB
RSSI: -55 dBm
Throughput: 5.51 Mbit/sec

 A18
CINR: 30 dB
RSSI: -68 dBm
Throughput: 4.15 Mbit/sec

 A19
CINR: 30 dB
RSSI: -68 dBm
Throughput: 4.06 Mbit/sec

 A2
CINR: 30 dB
RSSI: -63 dBm
Throughput: 5.79 Mbit/sec

 A20
CINR: 33 dB
RSSI: -58 dBm
Throughput: 4.07 Mbit/sec

 A3

CINR: 32 dB
RSSI: -55 dBm
Throughput: 5.66 Mbit/sec



A4
CINR: 31 dB
RSSI: -66 dBm
Throughput: 5.20 Mbit/sec



A5
CINR: 31 dB
RSSI: -66 dBm
Throughput: 5.25 Mbit/sec



A6
CINR: 32 dB
RSSI: -49 dBm
Throughput: 5.80 Mbit/sec



A7
CINR: 32 dB
RSSI: -51 dBm
Throughput: 5.84 Mbit/sec



A8
CINR: 32 dB
RSSI: -58 dBm
Throughput: 5.65 Mbit/sec



A9
CINR: 30 dB
RSSI: -68 dBm
Throughput: 4.10 Mbit/sec



A21
CINR: 31 dB
RSSI: -68 dBm
Throughput: 5.68 Mbit/sec



A22
CINR: 32 dB
RSSI: -66 dBm
Throughput: 5.56 Mbit/sec



A23
CINR: 30 dB
RSSI: -68 dBm
Throughput: 5.62 Mbit/sec



A24
CINR: 30 dB
RSSI: -71 dBm
Throughput: 5.68 Mbit/sec



A25
CINR: 31 dB
RSSI: -69 dBm
Throughput: 5.62 Mbit/sec



A26
CINR: 28 dB
RSSI: -74 dBm
Throughput: 5.43 Mbit/sec



A27
CINR: 30 dB
RSSI: -71 dBm

Throughput: 5.32 Mbit/sec



A28
CINR: 27 dB
RSSI: -76 dBm
Throughput: 5.26 Mbit/sec



A29
CINR: 23 dB
RSSI: -80 dBm
Throughput: 4.07 Mbit/sec



A30
CINR: 27 dB
RSSI: -75 dBm
Throughput: 4.13 Mbit/sec



A31
CINR: 21 dB
RSSI: -80 dBm
Throughput: 5.81 Mbit/sec



A32
CINR: 21 dB
RSSI: -84 dBm
Throughput: 5.81 Mbit/sec



A33
CINR: 22 dB
RSSI: -81 dBm
Throughput: 5.68 Mbit/sec



A34
CINR: 20 dB
RSSI: -78 dBm
Throughput: 5.62 Mbit/sec



A35
CINR: 24 dB
RSSI: -72 dBm
Throughput: 5.38 Mbit/sec



A36
CINR: 33 dB
RSSI: -53 dBm
Throughput: 5.21 Mbit/sec



A37
CINR: 30 dB
RSSI: -64 dBm
Throughput: 5.26 Mbit/sec




A38
CINR: 31 dB
RSSI: -64 dBm
Throughput: 5.38 Mbit/sec





A39
CINR: 30 dB
RSSI: -65 dBm
Throughput: 5.32 Mbit/sec





A40
CINR: 26 dB
RSSI: -78 dBm
Throughput: 2.69 Mbit/sec


 A41
CINR: 20 dB
RSSI: -81 dBm
Throughput: 2.69 Mbit/sec


 A42
CINR: 19 dB
RSSI: -83 dBm
Throughput: 5.41 Mbit/sec

 A43
CINR: 14 dB
RSSI: -88 dBm
Throughput: 5.62 Mbit/sec

 A44
CINR: 31 dB
RSSI: -67 dBm
Throughput: 5.32 Mbit/sec

 A45
CINR: 31 dB
RSSI: -66 dBm
Throughput: 5.26 Mbit/sec

 Wimax Base Station
The throughput was calculated using TCP packets of Windows Size = 64 KB and the RTT.

 Maximum Reception Distance
From this It was possible to have a good quality video conderence via skype.