



Orange is Romania's Speedtest Awards™ Winner for 5G speed during Q3–Q4 2021

264.38

Speed Score™

281.10
Median Speed Mbps

33.55
Median Speed Mbps

Speed Score™

| | |
|----------|--------|
| Orange | 264.38 |
| DIGI | 178.81 |
| Vodafone | 134.22 |

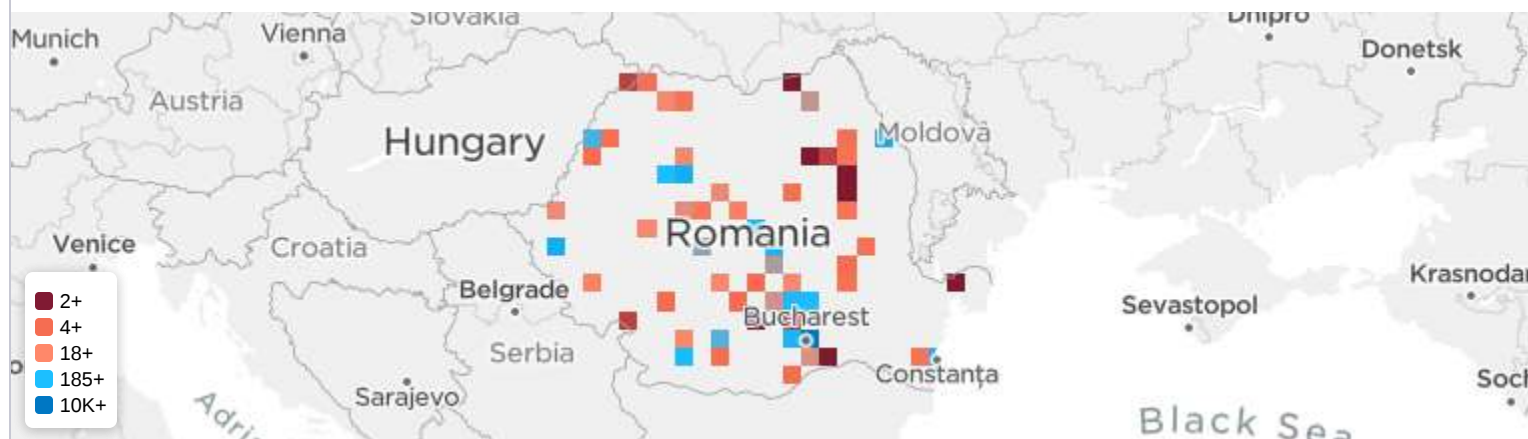
Test Counts

| | |
|----------|--------|
| Orange | 19,256 |
| DIGI | 1,991 |
| Vodafone | 22,341 |



Tests Taken

Ookla® compared 43,602 user-initiated 5G tests taken on the Speedtest iOS and Android mobile apps from all the major mobile carriers in Romania during the award period to determine who showed the fastest mobile network speeds.



Market Statistics

Unique Devices

12,806

| | |
|----------------------|-------|
| iPhone 12 Pro Max 5G | 2,081 |
| iPhone 12 Pro 5G | 1,627 |
| iPhone 12 5G | 1,161 |
| Galaxy S21 Ultra 5G | 861 |
| iPhone 13 Pro Max | 761 |

Median Download Speed

192.42 Mbps

| | |
|----------|--------|
| Orange | 281.10 |
| DIGI | 195.17 |
| Vodafone | 142.80 |

Median Upload Speed

25.66 Mbps

| | |
|----------|-------|
| Orange | 33.55 |
| DIGI | 12.66 |
| Vodafone | 22.58 |

Median Latency

18 ms

| | |
|----------|----|
| Orange | 17 |
| DIGI | 23 |
| Vodafone | 19 |

How Speed Score™ Works

When analyzing fastest operators, Ookla solely considers top carriers (all carriers with 3% or more of total test samples in the entire market with 5G results for the full award period). We then determine the fastest 5G carrier using Speed Score for 5G results which incorporates a measure of each provider's download and upload speed to rank network speed performance (90% of the final Speed Score is attributed to download speed and the remaining 10% to upload speed). The Speed Score uses a modified trimean to demonstrate the download and upload speeds that are available across a provider's network. We take speeds from the 10th percentile, 50th percentile (also known as the median), and 90th percentile, and combine them in a weighted average using a 1:8:1 ratio, respectively. We place the most emphasis on the download speeds and median speeds as those represent what most network providers' customers will experience on a day-to-day basis. The winning provider must also have the fastest median 5G download speed during the award period.

| | Download Trimean | 90th Percentile | 50th Percentile | 10th Percentile | Upload Trimean | 90th Percentile | 50th Percentile | 10th Percentile |
|----------|------------------|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|
| Orange | 289.85 | 565.69 | 281.10 | 84.04 | 35.15 | 74.13 | 33.55 | 8.93 |
| DIGI | 197.24 | 359.47 | 195.17 | 51.51 | 12.97 | 26.52 | 12.66 | 1.90 |
| Vodafone | 146.51 | 293.33 | 142.80 | 29.36 | 23.61 | 50.20 | 22.58 | 5.24 |

City Network Speeds

Bucharest

| Carrier | Download Mbps | Upload Mbps |
|----------|---------------|-------------|
| Orange | 289.63 | 38.71 |
| DIGI | 219.35 | 12.44 |
| Vodafone | 131.50 | 24.66 |

