



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

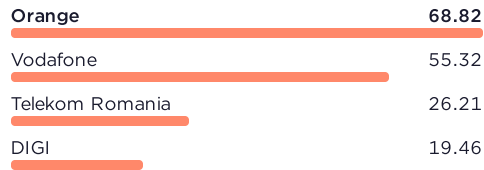
68.82

Speed Score™

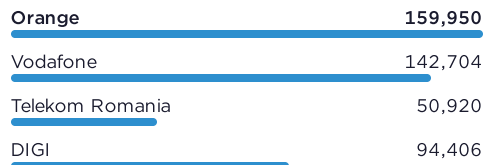
51.17  
Median Speed Mbps

14.15  
Median Speed Mbps

Speed Score™

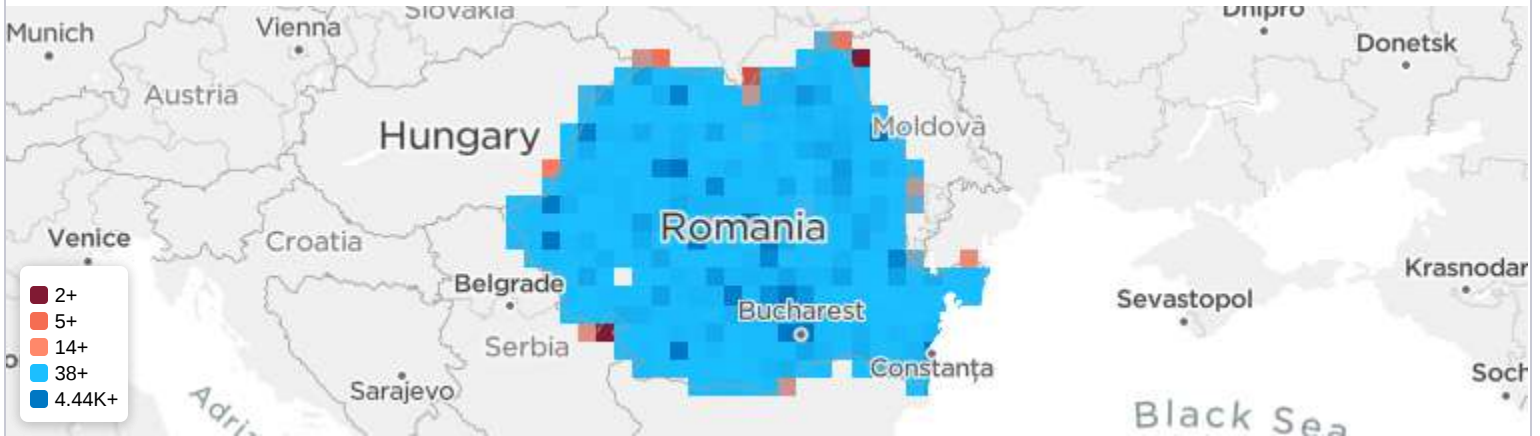


Test Counts



Tests Taken

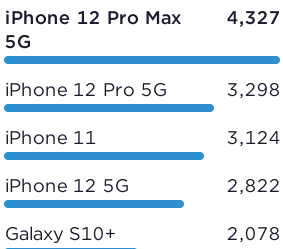
Ookla® compared 448,467 user-initiated tests taken on the Speedtest iOS and Android mobile apps from all the major mobile carriers in Romania during the award period to determine who showed the fastest mobile network speeds.



Market Statistics

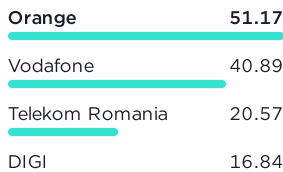
Unique Devices

107,285



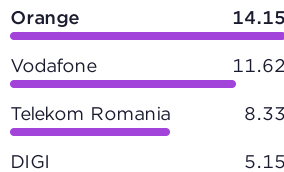
Median Download Speed

32.50 Mbps



Median Upload Speed

10.26 Mbps



Median Latency

24 ms



## 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 for the full award period). We then determine the fastest carrier using Speed Score for 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.

	Download Trimean	90th Percentile	50th Percentile	10th Percentile	Upload Trimean	90th Percentile	50th Percentile	10th Percentile
Orange	<b>74.55</b>	220.99	64.33	9.88	<b>17.24</b>	44.07	15.70	2.70
Vodafone	59.87	164.65	53.17	8.64	14.37	37.75	12.94	2.42
Telekom Romania	27.94	72.97	25.29	4.14	10.62	31.06	9.21	1.46
DIGI	20.94	49.84	19.51	3.42	6.17	16.27	5.57	0.89

## City Network Speeds

### Bucharest

Carrier	Download Mbps	Upload Mbps
<b>Orange</b>	<b>86.66</b>	<b>22.58</b>
Vodafone	56.14	16.39
Telekom Romania	21.17	10.71
DIGI	17.47	6.07

