

UK broadband speed test results October 2020

This press release gives the aggregated speed test results from the hundreds of thousands of tests carried out by users of broadband.co.uk during October 2020.

Fixed line home broadband providers

| Average fixed line download & upload speeds (Mbps) – October 2020 | | | | | | |
|---|-----|---------------------------|------------------|---------------|----------------|--------------|
| Rank | Was | Broadband Provider | Average Download | | Average Upload | |
| | | | Speed | Change | Speed | Change |
| - | - | All home broadband | 46.73 | +3.18 | 9.5 | -0.65 |
| 1 | 1 | Virgin Media | 97.45 | +11.87 | 12.41 | -0.66 |
| 2 | 2 | BT | 46.55 | +0.64 | 10.72 | -0.21 |
| 3 | 3 | Vodafone Home | 43.67 | +2.79 | 11.86 | +0.1 |
| 4 ▲ | 6 | EE Home | 32.66 | +5.62 | 7.01 | +0.45 |
| 5 ▼ | 4 | Daisy / SSE | 29.03 | +0.01 | 10.1 | -4.08 |
| 6 ▼ | 5 | Sky / NOW Broadband | 28.5 | +0.61 | 6.9 | -0.18 |
| 7 | 7 | TalkTalk | 25.44 | -0.92 | 5.87 | -0.45 |
| 8 | 8 | Plusnet / John Lewis | 23 | -0.24 | 5.17 | -0.27 |

Overall, the average download speeds across all fixed line providers increased by 3.18Mbps to 46.73Mbps since last month, with upload speeds decreasing by 0.64Mbps to 9.5Mbps.

Consumer mobile broadband providers

| Average mobile download & upload speeds (Mbps) – October 2020 | | | | | | |
|---|-----|-----------------------------|------------------|--------------|----------------|--------------|
| Rank | Was | Broadband Provider | Average Download | | Average Upload | |
| | | | Speed | Change | Speed | Change |
| - | - | All mobile broadband | 30.39 | +4.14 | 6.78 | +0.33 |
| 1 | 1 | EE Mobile | 33.53 | +1.78 | 7.56 | -0.07 |
| 2 ▲ | 3 | Three Mobile | 30.04 | +7.89 | 6 | +0.71 |
| 3 ▼ | 2 | Vodafone Mobile | 27.34 | -1.89 | 6.54 | -0.12 |
| 4 | 4 | O2 Mobile | 15.31 | +0.16 | 3.49 | -0.52 |

Overall, the average download speeds across all mobile broadband providers increased by 4.14Mbps to 30.39Mbps since last month, with upload speeds increasing by 0.33Mbps to 6.78Mbps.

UK broadband speed test results October 2020

Combined home and mobile broadband rankings

| Average broadband download & upload speeds (Mbps) – October 2020 | | | | | | |
|--|-----|-----------------------------|------------------|---------------|----------------|--------------|
| Rank | Was | Broadband Provider | Average Download | | Average Upload | |
| | | | Speed | Change | Speed | Change |
| - | - | All home broadband | 46.73 | +3.18 | 9.5 | -0.65 |
| - | - | All mobile broadband | 30.39 | +4.14 | 6.78 | +0.33 |
| 1 | 1 | Virgin Media | 97.45 | +11.87 | 12.41 | -0.66 |
| 2 | 2 | BT | 46.55 | +0.64 | 10.72 | -0.21 |
| 3 | 3 | Vodafone Home | 43.67 | +2.79 | 11.86 | +0.1 |
| 4 | 4 | EE Mobile | 33.53 | +1.78 | 7.56 | -0.07 |
| 5 ▲ | 8 | EE Home | 32.66 | +5.62 | 7.01 | +0.45 |
| 6 ▲ | 11 | Three Mobile | 30.04 | +7.89 | 6 | +0.71 |
| 7 ▼ | 6 | Daisy / SSE | 29.03 | +0.01 | 10.1 | -4.08 |
| 8 ▼ | 7 | Sky / NOW Broadband | 28.5 | +0.61 | 6.9 | -0.18 |
| 9 ▼ | 5 | Vodafone Mobile | 27.34 | -1.89 | 6.54 | -0.12 |
| 10 ▼ | 9 | TalkTalk | 25.44 | -0.92 | 5.87 | -0.45 |
| 11 ▼ | 10 | Plusnet / John Lewis | 23 | -0.24 | 5.17 | -0.27 |
| 12 | 12 | O2 Mobile | 15.31 | +0.16 | 3.49 | -0.52 |

Overall speed performance of consumer mobile broadband is roughly comparable to that of many fixed line broadband providers. However, only 7.33% of the speed tests performed in October 2020 took place over a mobile broadband connection.

While the availability of the fastest mobile data transfer protocols varies with location, and some tests will be performed on 3G or even 2.5G GPRS connections, the same is true for fixed line broadband providers whose flagship products may not be available in rural and remote areas, or may not be adopted by consumers preferring cheaper speed-limited alternatives.

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Combined UK broadband rankings by upload speed

| Average broadband upload & download speeds (Mbps) – October 2020 | | | | | | |
|--|-----|-----------------------------|----------------|--------------|------------------|---------------|
| Rank | Was | Broadband Provider | Average Upload | | Average Download | |
| | | | Speed | Change | Speed | Change |
| - | - | All home broadband | 9.5 | -0.65 | 46.73 | +3.18 |
| - | - | All mobile broadband | 6.78 | +0.33 | 30.39 | +4.14 |
| 1 ▲ | 2 | Virgin Media | 12.41 | -0.66 | 97.45 | +11.87 |
| 2 ▲ | 3 | Vodafone Home | 11.86 | +0.1 | 43.67 | +2.79 |
| 3 ▲ | 4 | BT | 10.72 | -0.21 | 46.55 | +0.64 |
| 4 ▼ | 1 | Daisy / SSE | 10.1 | -4.08 | 29.03 | +0.01 |
| 5 | 5 | EE Mobile | 7.56 | -0.07 | 33.53 | +1.78 |
| 6 ▲ | 8 | EE Home | 7.01 | +0.45 | 32.66 | +5.62 |
| 7 ▼ | 6 | Sky / NOW Broadband | 6.9 | -0.18 | 28.5 | +0.61 |
| 8 ▼ | 7 | Vodafone Mobile | 6.54 | -0.12 | 27.34 | -1.89 |
| 9 ▲ | 11 | Three Mobile | 6 | +0.71 | 30.04 | +7.89 |
| 10 ▼ | 9 | TalkTalk | 5.87 | -0.45 | 25.44 | -0.92 |
| 11 ▼ | 10 | Plusnet / John Lewis | 5.17 | -0.27 | 23 | -0.24 |
| 12 | 12 | O2 Mobile | 3.49 | -0.52 | 15.31 | +0.16 |

While most UK broadband providers place much less marketing emphasis on upload speeds, this is an increasingly important factor in broadband satisfaction. As more and more storage moves to the cloud, being unable to quickly save or sync to servers on the internet increasingly impacts the user experience in apps. This is even more important to those who work from home, or who create online video content.

In October 2020 average fixed line broadband download speed was 4.92 times faster than upload speed, while mobile broadband downloads averaged at 4.48 times the speed achieved for mobile uploads.

The rollout and increasing adoption of full fibre broadband services will see the gap between download and upload performance shrink, especially from providers offering symmetric services.

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Consumer broadband download speeds - time of day

| Average download speeds (Mbps) split by time of day – October 2020 | | | | |
|--|-------------------------------|-----------------------------|-----------------------------|-----------------------------|
| Broadband Provider | Overnight (00:00 to 07:59) | Daytime (08:00 to 17:59) | Evening (18:00 to 23:59) | Overall (00:00 to 23:59) |
| All home broadband | 47.48 | 46.23 | 47.6 | 46.73 |
| All mobile broadband | 42.56 | 28.6 | 29.39 | 30.39 |
| Virgin Media | 105.05 | 95.91 | 98.41 | 97.45 |
| BT | 49.01 | 45.56 | 48.12 | 46.55 |
| Vodafone Home | 44.82 | 44.81 | 41.17 | 43.67 |
| EE Mobile | 42.59 | 32.23 | 32.52 | 33.53 |
| EE Home | 32.63 | 30.66 | 37.18 | 32.66 |
| Three Mobile | 44.17 | 28.54 | 28.01 | 30.04 |
| Sky / NOW Broadband | 29.91 | 28.6 | 27.84 | 28.5 |
| TalkTalk | 24.66 | 25.51 | 25.55 | 25.44 |
| Plusnet / John Lewis | 22.13 | 23.32 | 22.55 | 23 |

Our average speed by time of day report shows how the average broadband speed is heavily influenced by the time of day (and therefore likely level of network congestion).

Fixed line broadband advertised speeds are now based on the speed achieved by 50% of customers during peak evening hours of 8pm to 10pm.

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Supplemental UK broadband providers

| Average download & upload speeds (Mbps) – October 2020 | | |
|--|------------------|----------------|
| Broadband Provider | Average Download | Average Upload |
| Zen | 82.4 | 15.8 |
| Post Office (rural/remote) | 13.6 | 2.8 |
| TalkTalk Business | 24.03 | 6.45 |
| Vodafone Wholesale | 20.2 | 5.11 |
| Gigaclear | 143.06 | 84.85 |
| Virgin Media Business | 71.8 | 16.45 |
| Hyperoptic | 114.28 | 61.92 |
| Eclipse/KCOM Business | 22.48 | 7.3 |
| Fibrus | 76.8 | 19.14 |
| KCOM | 67.02 | 16.68 |
| Community Fibre | 124.34 | 78.97 |
| Entanet | 42.79 | 16.59 |
| O2 Wifi | 14.28 | 3.97 |

Here we list additional fixed line broadband providers with fewer customers making use of our speed test. All providers listed have sufficient test numbers across the month to make average speeds statistically significant, but not enough tests to be split by time of day. The lower down the list, the less confident we are about the overall accuracy of the average results.

It should be noted that some of these supplemental ISPs, such as Zen, primarily supply broadband to the business market, and so may utilize technologies not available to the vast majority of home broadband users.

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Expanded UK broadband download speed rankings

| Average download & upload speeds (Mbps) – October 2020 | | | |
|--|----------------------------|------------------|----------------|
| Rank | Broadband Provider | Average Download | Average Upload |
| 1 | Gigaclear | 143.06 | 84.85 |
| 2 | Community Fibre | 124.34 | 78.97 |
| 3 | Hyperoptic | 114.28 | 61.92 |
| 4 | Virgin Media | 97.45 | 12.41 |
| 5 | Zen | 82.4 | 15.8 |
| 6 | Fibrus | 76.8 | 19.14 |
| 7 | Virgin Media Business | 71.8 | 16.45 |
| 8 | KCOM | 67.02 | 16.68 |
| 9 | BT | 46.55 | 10.72 |
| 10 | Vodafone Home | 43.67 | 11.86 |
| 11 | Entanet | 42.79 | 16.59 |
| 12 | EE Mobile | 33.53 | 7.56 |
| 13 | EE Home | 32.66 | 7.01 |
| 14 | Three Mobile | 30.04 | 6 |
| 15 | Daisy / SSE | 29.03 | 10.1 |
| 16 | Sky / NOW Broadband | 28.5 | 6.9 |
| 17 | Vodafone Mobile | 27.34 | 6.54 |
| 18 | TalkTalk | 25.44 | 5.87 |
| 19 | TalkTalk Business | 24.03 | 6.45 |
| 20 | Plusnet / John Lewis | 23 | 5.17 |
| 21 | Eclipse/KCOM Business | 22.48 | 7.3 |
| 22 | Vodafone Wholesale | 20.2 | 5.11 |
| 23 | O2 Mobile | 15.31 | 3.49 |
| 24 | O2 Wifi | 14.28 | 3.97 |
| 25 | Post Office (rural/remote) | 13.6 | 2.8 |

UK broadband speed test results October 2020

Expanded UK broadband upload speed rankings

| Average upload & download speeds (Mbps) – October 2020 | | | |
|--|----------------------------|----------------|------------------|
| Rank | Broadband Provider | Average Upload | Average Download |
| 1 | Gigaclear | 84.85 | 143.06 |
| 2 | Community Fibre | 78.97 | 124.34 |
| 3 | Hyperoptic | 61.92 | 114.28 |
| 4 | Fibrus | 19.14 | 76.8 |
| 5 | KCOM | 16.68 | 67.02 |
| 6 | Entanet | 16.59 | 42.79 |
| 7 | Virgin Media Business | 16.45 | 71.8 |
| 8 | Zen | 15.8 | 82.4 |
| 9 | Virgin Media | 12.41 | 97.45 |
| 10 | Vodafone Home | 11.86 | 43.67 |
| 11 | BT | 10.72 | 46.55 |
| 12 | Daisy / SSE | 10.1 | 29.03 |
| 13 | EE Mobile | 7.56 | 33.53 |
| 14 | Eclipse/KCOM Business | 7.3 | 22.48 |
| 15 | EE Home | 7.01 | 32.66 |
| 16 | Sky / NOW Broadband | 6.9 | 28.5 |
| 17 | Vodafone Mobile | 6.54 | 27.34 |
| 18 | TalkTalk Business | 6.45 | 24.03 |
| 19 | Three Mobile | 6 | 30.04 |
| 20 | TalkTalk | 5.87 | 25.44 |
| 21 | Plusnet / John Lewis | 5.17 | 23 |
| 22 | Vodafone Wholesale | 5.11 | 20.2 |
| 23 | O2 Wifi | 3.97 | 14.28 |
| 24 | O2 Mobile | 3.49 | 15.31 |
| 25 | Post Office (rural/remote) | 2.8 | 13.6 |

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About the Broadband.co.uk speed test results

- Our results are taken from our website users performing speed tests using our speed checker at <https://www.broadband.co.uk/broadband-speedtest/>
- We record hundreds of thousands of speed tests every month
- Unlike other speed test services we record the Internet Service Provider (ISP) by IP address making our ISP recording very accurate rather than relying on self selection. Certain ISPs resell their services as a wholesale or white label product, in these cases the wholesale ISP is matched
- We pick out the following 'big 8' fixed line ISPs for detailed reporting every month:
 - **BT wholesale network** (used by several suppliers outside their own low cost network areas)
 - **Daisy wholesale network** (used by SSE and Fleur)
 - **EE** (excluding 4G mobile broadband)
 - **Plusnet wholesale network** (used by John Lewis)
 - **Sky** (also sold as NOW Broadband)
 - **TalkTalk wholesale network** (used by suppliers such as Utility Warehouse, Post Office Broadband and First Utility)
 - **Virgin Media**
 - **Vodafone**
- As our test is one of the few that will run on mobile devices and tablets, we're also able to report on the following mobile broadband networks:
 - **EE** (used by Virgin Mobile, Plusnet Mobile, Asda Mobile and Phone Co-Op)
 - **O2** (used by Tesco Mobile, Sky Mobile, TalkTalk Mobile and giffgaff)
 - **Three** (used by Superdrug Mobile, TPO Mobile and FreedomPop)
 - **Vodafone** (used by Talkmobile)

About Broadband.co.uk

- Our broadband price comparison is accredited by Ofcom as open, honest and transparent
- We are one of the original broadband information and comparison sites having been launched in 2004
- With millions of visitors each year we are one of the UK's leading sources of broadband information and advice
- We provide beginners guides to all areas of broadband along with detailed buyers guides to the major broadband providers, speed tester and broadband postcode look-up functionality
- We provide a free advice service where our broadband expert answers queries related to broadband, technical, comparison and related

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