# Chapter 1 Development and use of basic internet resources

Basic internet resources provide an essential foundation for building a strong cyber nation and play a key supporting role in the deep integration of the real and digital economies. In the first half of 2025, the construction of 5G and gigabit fibre broadband networks continued, while mobile internet traffic maintained relatively rapid growth, supporting further high-quality development of the information and communications industry.

## 1 Development of basic internet resources

As at June 2025, China held approximately 343.19 million IPv4 addresses and 68,567 /32 IPv6 address blocks, with 836 million active IPv6 users. China had 32.62 million domain names,[25] including 20.85 million .CN domains, and 1.234 billion internet broadband access ports.

**Table 1 Basic internet resources in June 2025**

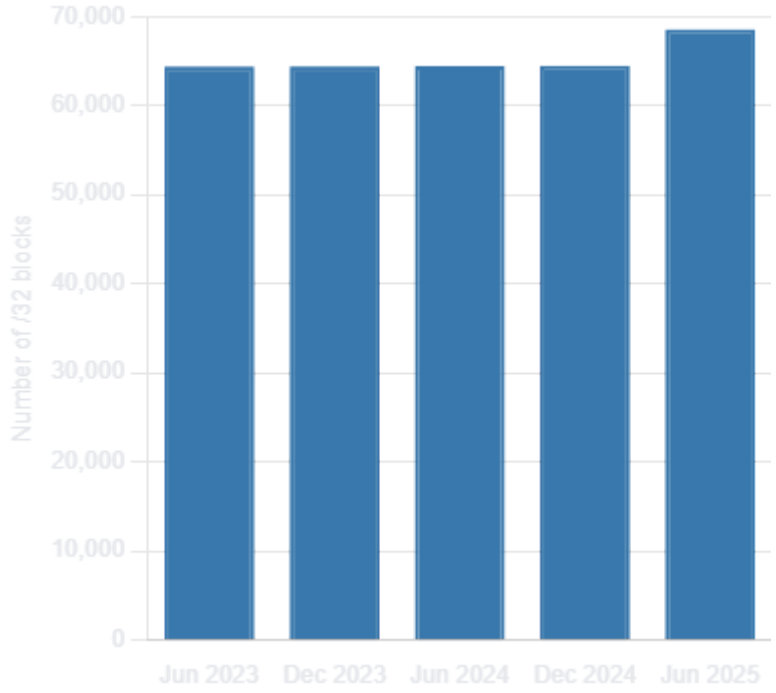
| Resource | Unit | June 2025 |
|---|---|---|
| IPv4 addresses | Addresses | 343,194,368 |
| IPv6 addresses | /32 blocks | 68,567 |
| Active IPv6 users | Million users | 836 |
| Domain names | Domains | 32,623,785 |
| Of which .CN domains | Domains | 20,854,955 |
| Broadband access ports | Billion ports | 1.234 |

### IP addresses

As at June 2025, China held 68,567 /32 IPv6 address blocks. An assessment of IPv6 support among 23 major public recursive resolver services worldwide found

that 14 provided public recursive services over IPv6, accounting for approximately 60.9%.

**Figure 1 IPv6 address blocks**




Unit: Number of /32 blocks.

Source: Statistical Survey on Internet Development in China, June 2025.

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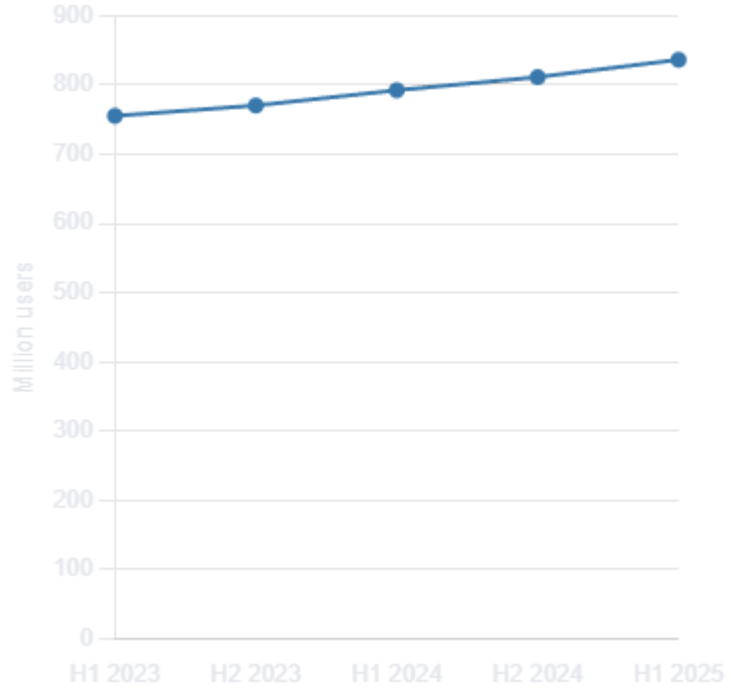
Active IPv6 users in China reached 836 million in the first half of 2025.

**Figure 2 Active IPv6 users**




Unit: Million users.

Source: National IPv6 Development Monitoring Platform, June 2025.

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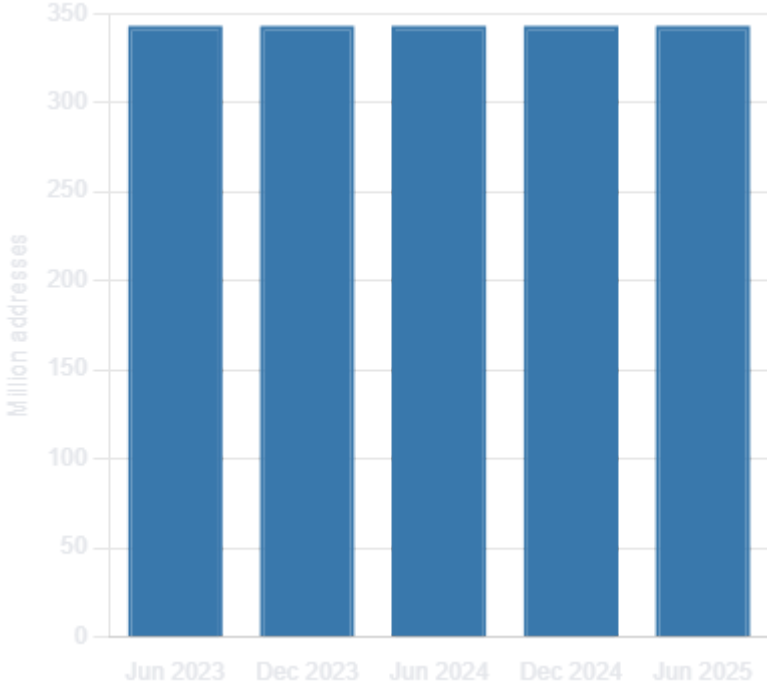
As at June 2025, China held approximately 343.19 million IPv4 addresses.

**Figure 3 IPv4 addresses**




Unit: Million addresses.

Source: Statistical Survey on Internet Development in China, June 2025.

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## Domain names

As at June 2025, China had 32.62 million domain names. These included 20.85 million .CN domains, 6.94 million .COM domains, 160,000 .中国 domains and 3.18 million new generic top-level domains.

**Table 2 Domain names by category**

| Category | Number |
|---|---|
| .CN | 20,854,955 |
| .COM | 6,941,539 |
| .NET | 550,368 |
| .中国 | 164,301 |
| .INFO | 35,045 |
| .ORG | 19,992 |
| New gTLD | 3,175,089 |
| Other [26] | 882,496 |
| Total | 32,623,785 |

**Table 3 CN domain names by category**

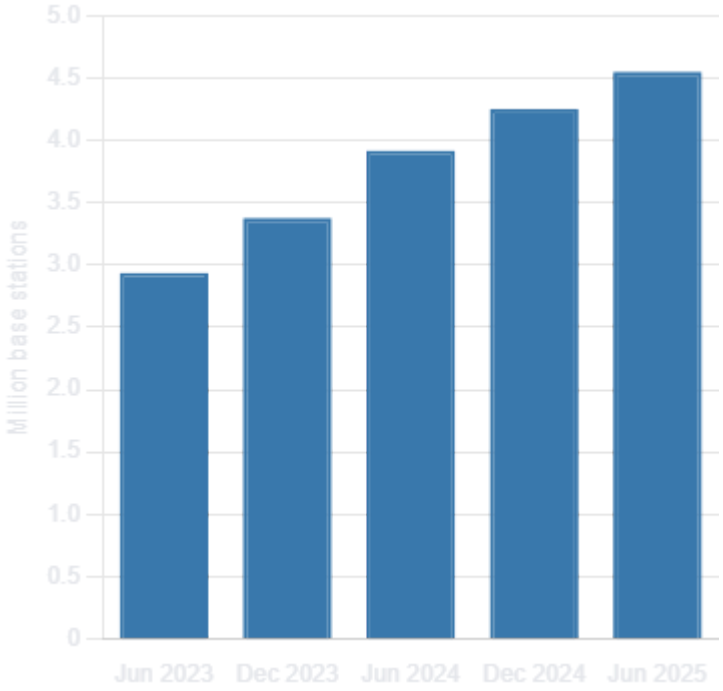
| Category | Number |
|---|---|
| .CN [27] | 13,371,369 |
| .COM.CN | 3,890,172 |
| .ADM.CN [28] | 1,540,416 |
| .NET.CN | 1,066,242 |
| .ORG.CN | 940,167 |
| .AC.CN | 27,226 |

| | |
|---|---|
| .GOV.CN | 12,241 |
| .EDU.CN | 6,871 |
| Other | 251 |
| Total | 20,854,955 |

### 5G base stations

As at June 2025, the total number of 5G base stations reached 4.549 million.

**Figure 4 5G base stations**




Unit: Million base stations.

Source: Ministry of Industry and Information Technology, June 2025.

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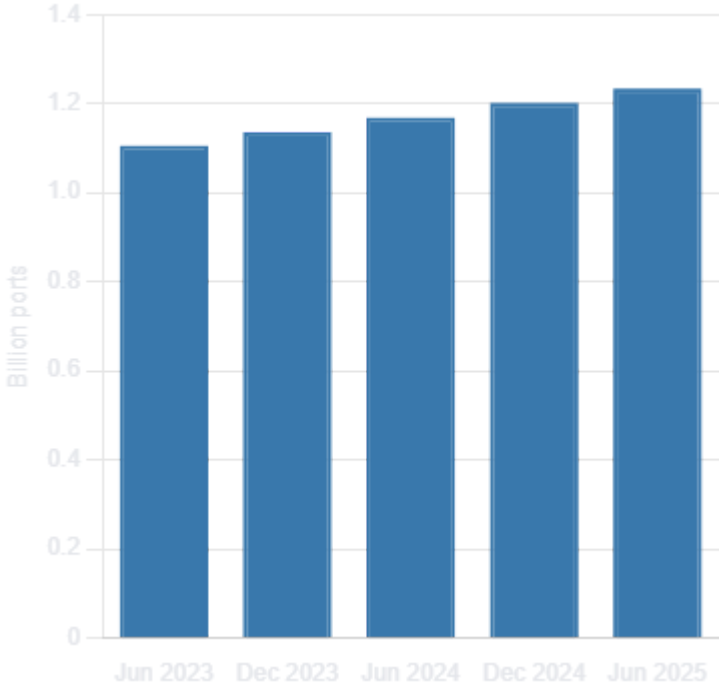
### Internet broadband access ports

As at June 2025, China had 1.234 billion internet broadband access ports, a net increase of 32.44 million compared with December 2024. Fibre-to-the-home or office ports reached 1.193 billion, a net increase of 32.64 million, accounting for 96.6% of all broadband access ports. There were 30.22 million 10G PON ports

capable of providing gigabit services, a net increase of 2.019 million compared with December 2024.

**Figure 5 Internet broadband access ports**




Unit: Billion ports.

Source: Ministry of Industry and Information Technology, June 2025.

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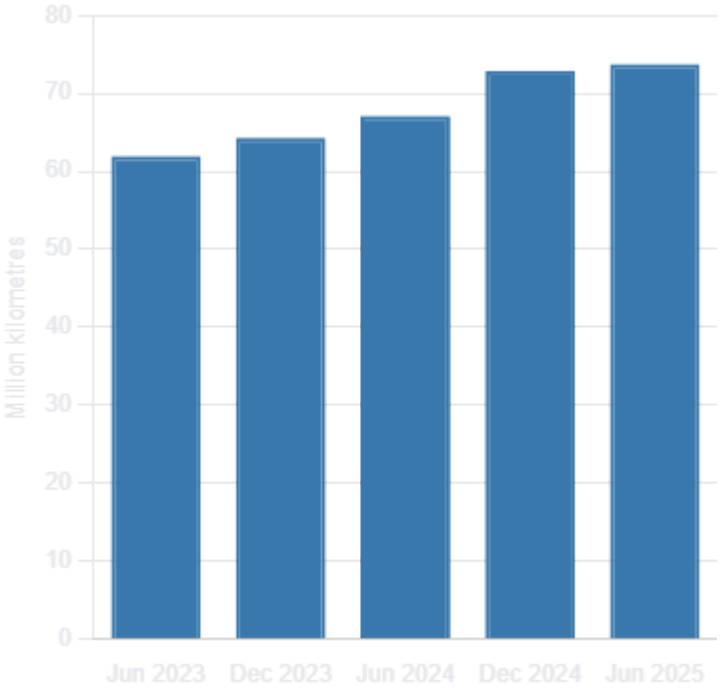
## Total length of fibre-optic cable routes

As at June 2025, the total length of China's fibre-optic cable routes reached 73.77 million kilometres, up 9.9% year on year.

**Figure 6 Total length of fibre optic cable routes**




Unit: Million kilometres.

Source: Ministry of Industry and Information Technology, June 2025.

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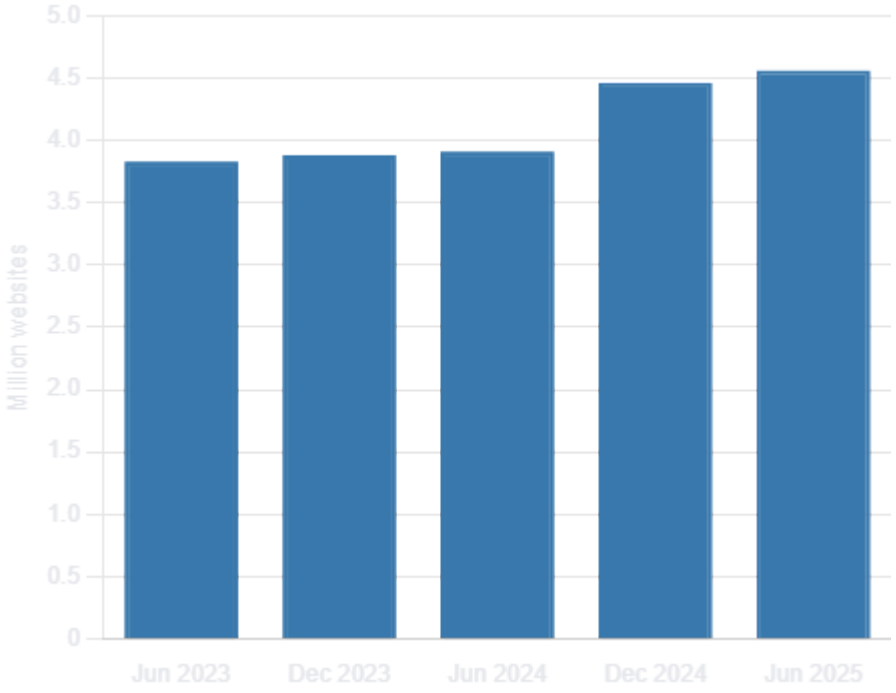
# 2 Use of basic internet resources

## Websites

As at June 2025, China had 4.56 million websites.

**Figure 7 Number of websites**




Unit: Million websites.

Source: MIIT ICP/IP Address/Domain Name Filing Management System, June 2025.

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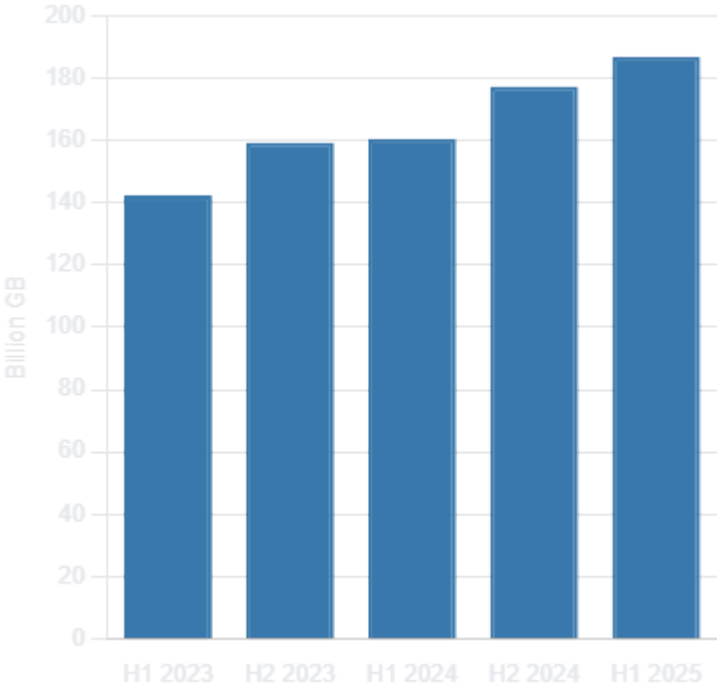
## Mobile internet traffic

In the first half of 2025, total mobile internet traffic[29] reached 186.7 billion GB, an increase of 16.4% year on year.

**Figure 8 Mobile internet traffic**



Unit: Billion GB.

Source: Ministry of Industry and Information Technology, June 2025.

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# Notes and sources

[25] Traditional generic top-level domain and new generic top-level domain data were supplied with assistance from domestic domain name registrars. Figures for .CN and .中国 represent worldwide registrations.

[26] Other domains include .BIZ, .CO, .TV, .CC, .ME, .HK and .PW.

[27] Here, .CN refers to second-level domain names registered directly under .CN.

[28] .ADM.CN is a virtual second-level domain category collectively covering all administrative-region second-level domains under .CN.

[29] From February 2024, industry totals include China Broadcasting Network Group Corporation Limited (China Broadnet) figures for 5G mobile subscribers, 5G mobile internet traffic and 5G mobile internet users.

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