

Universities in China embrace Wi-Fi 6



Chinese universities experience the benefits of Wi-Fi 6

Wi-Fi® has become increasingly important in the realm of [education](#), as students and teachers across elementary, high school, and university levels begin to rely on Wi-Fi to administer and deliver educational programming. As the need for connectivity grows, [universities](#) in particular have recognized the importance of ubiquitous connectivity to facilitate student learning. Wi-Fi 6 has proven to be a key technology to facilitate that connectivity, enabling universities to support a multitude of devices and applications to improve student life, learning, and safety on campus.



Two universities in China—Northeastern University in Shenyang and Nanjing University in Nanjing—both harnessed the power of Wi-Fi 6 on their campuses. Each university deployed [Wi-Fi CERTIFIED 6™](#) networks to enhance the ability of students to study and learn throughout the campus, without speed delays or gaps in coverage.

Northeastern University becomes the first full coverage university in China

Northeastern University, located in Liaoning Province, is known for its prominent role in the information technology industry, in addition to strong programs in engineering and architecture. As part of the 211 Project and 985 Project initiatives to elevate research standards among universities, it has been selected as a National Key University by the Chinese Ministry of Education as part of the world-class institution development initiative.

In 2019, Northeastern University became the first university in China to offer complete Wi-Fi 6 coverage throughout its campuses. The updated network utilizes 13,000 Ruijie Wi-Fi CERTIFIED 6 access points (APs) throughout the three campus branches, including 71 buildings and 8,752 dorm rooms. The network, which also leverages WPA3™ and Passpoint® technologies, supports 25,000 concurrent users, with a daily accumulated user base of 42,700.

Prior to updating the network, Northeastern University relied on a Wi-Fi 4 network that provided hardly enough connectivity for the daily education and entertainment needs of students. The earlier network was deployed only in dormitory corridors, leaving many dorm rooms without coverage in places. With the Wi-Fi 6 network, the university is now able to meet and exceed the connectivity needs of students. The updated network boasts a downlink speed of 500 Mbps, and since it was installed, has facilitated 23TB of downlink traffic and 4TB of uplink traffic. There are now no coverage gaps on the campuses, allowing students to connect to the internet regardless of their location at the university.

Nanjing University deploys Wi-Fi 6 in dormitories

Nanjing University in Nanjing City, a member of the elite C9 League of China universities, is also designated as a National Key University by the Chinese Ministry of Education in the 211 Project and 985 Product initiatives. As the oldest institution of higher learning in Nanjing, the university is perennially ranked as one of the best research universities in China.

Nanjing University completed the installation of 11,000 Wi-Fi CERTIFIED 6 Ruijie APs across both university campuses in 2020. Between the two campuses, the network covers 45 dormitory buildings—20 at Gulou and 25 at Xianlin. The updated Wi-Fi 6 network also leverages Passpoint and WPA3 technology, ensuring students are able to easily and safely connect to the internet. Wireless users at the university average approximately seven hours per day with a daily average of 1.7 Gigabytes sent across the network. The decision to focus these Wi-Fi 6 APs in the dormitories was strategic, as 60 percent of this use takes place in the dormitories. The Wi-Fi 6 network is able to provide continuous access for students in dorms, allowing them to access online courses, as well as supporting connectivity for other activities.

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