

ANTENNA SYSTEM AND BASE STATION

ABSTRACT

This application provides an antenna system and a base station. The antenna system includes a first antenna array and a second antenna array. The first antenna array operates on a first operating
5 frequency band, and the second antenna array operates on a second operating frequency band. The antenna system further includes a first reflection panel. The first antenna array and the second antenna array are stacked on the first reflection panel, and the first antenna array and the second antenna array share one first reflection panel. During assembly, the second antenna array may be an antenna existing on a base station in a conventional technology, and the first antenna array is
10 additional 5G antennas. The first antenna array and the first reflection panel form a module. The module is disposed on a side of the second antenna array that is away from a radiation area. The first antenna array and the second antenna array share the first reflection panel. As can be learned from the foregoing description, according to the antenna system provided in this embodiment of this application, different modules may be added as required to improve communication
15 performance of the existing base station, thereby reducing costs of refitting the base station.

Fig. 1