

ABSTRACT

The present invention is aimed at providing a base station for mobile communication systems which is capable of communicating with more mobile station than in the prior art while keeping high communication quality and restraining a rise in production cost. The base station of the present invention is used in mobile communication systems in which diversity is conducted. Such a base station includes an RF unit for generating a plurality of high-frequency transmission signals, an antenna selecting unit for switching connection of the transmission signal output of the RF unit from one antenna to another, a cross switch 460 for switching the data transmission route between straight connection and cross connection by inputting transmission data from TDMA processing units 471 and 472 interchangeably to transmitting units 433 and 434 of the RF unit, and a control unit 446 for controlling the antenna selecting unit so that the transmission signals will be connected to different antennas, respectively.