



Abstract

This invention provides an antenna unit operating for two frequency bands either in contained and pulled out. It provides a fixed antenna unit 20 and a slide antenna unit 30 freely in containing. A helical antenna 21 is provided in the fixed antenna unit 20. A first monopole antenna 31 having the same axis as the helical antenna 21, a second monopole antenna 32, and an antenna cover 33 for holding the monopole antenna 32 on the extended axis of the monopole antenna 31 are provided in the slide antenna unit 30. The monopole antenna 31 is held at the position where is not electromagnetically connected to the helical antenna 21 when the slide antenna unit 30 is pulled out, and the monopole antenna 32 is held at the position where is electromagnetically connected to the helical antenna 21. Further, the monopole antenna 31 is held at the position where is electromagnetically connected to the helical antenna 21, and the monopole antenna 32 is held at the position where is not electromagnetically connected to the helical antenna 21.