ABSTRACT

MOBILE TERMINAL APPARATUS AND RADIO BASE STATION APPARATUS

To provide a mobile terminal apparatus and radio base station apparatus supporting each of a plurality of mobile communication systems when the plurality of mobile communication systems coexists, a mobile terminal apparatus of the invention is a mobile terminal apparatus in a radio communication system for performing transmission and reception in uplink and downlink each assigned to a relatively wide system band obtained by aggregating a plurality of component carriers each of which is a relatively narrow system band, and has coding and data modulation sections (101a to 101N) that perform coding and data modulation on uplink control signals including report information of individual component carriers assigned to downlink, and mapping sections (102a to 102N) that map the control signals subjected to coding and data modulation to uplink communication channels.

FIG. 4