

ANTENNA SYSTEM

ABSTRACT

An antenna system (10, 100) is provided. The antenna system (10, 100) includes one or more antenna boards (12) and a ground board (14). Each of the one or more
5 antenna boards (12) includes a first substrate (16) and a plurality of openings (18) and a planar antenna (20) on the first substrate (16). The ground board (14) includes a second substrate (22) having a plurality of protrusions (24) on one or more edges of the second substrate (22), the protrusions (24) being received in corresponding openings (18) of the first substrate (16) of the one or more antenna boards (12), a ground plane (26) on the
10 second substrate (22), and a plurality of antenna elements (28) on the second substrate (22), the antenna elements (28) being configured to electrically connect the planar antenna (20) of the one or more antenna boards (12) to the ground plane (26).

[FIG. 1A]