

Abstracts

A 2.45 GHz Wireless IC Card System for Automatic Gates

K.-I. Konno, H. Wada and K. Matsukawa. "A 2.45 GHz Wireless IC Card System for Automatic Gates." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 797-800.

A 2.45 GHz wireless IC card system has been developed for a non-contact type train station automatic gate system. This system consists of a compact transmitter-receiver equipment and non-contact wireless IC cards. The newly developed technology used in this system comprises a small-size dual-port slot antenna for the card, a modulation-demodulation scheme for stable data transmission, and a co-channel carrier allocation system for operation with multiple gates. Operation of this wireless card system, with its newly developed technology, has been successfully demonstrated.

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