

An Advanced Co-Channel Operation Method for Multiple Wireless Gate

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An advanced co-channel allocation system for use 2.45 GHz multiple wireless gates in a train station has been developed. It is desirable to use a co-channel allocation system when designing a multiple gate system to effectively utilize frequency resources. The new co-channel allocation system doesn't need to phase lock. Each transmitter has a highly stable oscillator. The installation cost of this co-channel operation system is lower than old model which needs to phase lock. The interferences in a multiple wireless gate using this new co-channel system are discussed and compared with experimental results. The operation of advanced model has been successfully tested with the newly developed highly stable PLL DR oscillator.

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