

Partitions of Millimeter-Wave RF Transceiver Technology for Mass Production

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Abstract

A new wireless standard must produce wireless transceiver at affordable costs for consumers. This presentation reports the design and implementation of the 60 GHz WPAN (wireless personal area network) transceiver capable of multimedia transmission above 1.0 GBPS using the unlicensed band FCC Part

15.255. Competitive technology and architectures for making the 60 GHz WPAN transceiver will be reviewed and investigated, rendering some potential candidates to meet the low-cost and high-performance requirement for ad-hoc and/or mesh information distribution of network and offering easy and flexible extension of service area.