

60GHz BASEBAND

CT6100 IEEE802.11ad

FEATURES

- ≻ Frequency Band: 57GHz ~ 70GHz
- Specification: IEEE 802.11ad
- \geq Custom Features for Performance and Long-Range Link Connection
- Support USB3.0 Interface to Host Þ
- Support for Linux Wireless LAN Driver \geq
- \geqslant Single carrier BPSK, QPSK, 16QAM modulation modes
- \triangleright FEC LDPC 1/2, 5/8, 3/4, 13/16
- ≻ Support AES-128 GCMP security
- ⋟ Media Access: CSMA/CA, Reservation Access
- ۶ Beamforming
- \triangleright Supported Data Rates up to 4.62Gbps
- \triangleright Peak Power Consumption 2.0W

IEEE802.11ad

- PCP or STA Mode \triangleright
- \triangleright Reset, Start, Scan, Join, Associate, Disassociate
- ⋟ Block Ack, TSPEC for QoS
- \geqslant Personal authentication using GCMP
- \geqslant **Discovery Mode**
- \geqslant DTT operation - CBP, SP
- \triangleright AMPDU up to 56Kbytes
- \triangleright Various Priorities and Service Classes
 - QoS with Ack 0
 - 0 QoS with No Ack
 - Video, Voice, Best Effort, Background 0

Applications

- Wireless backhaul for small cells in 5G mobile networks
- \geq Wireless backlink for 2.4GHz/5GHz WiFi Hot Spots to Internet Gateway
- \triangleright Wireless high-resolution, multi-cameras video network for enabling video analytics (AI) in Industry 4.0, Smart City, Security & Surveillance
- Wireless UHD (4k) video Streaming for TV, Monitor, \geq Projector, NAS, Camera
- \triangleright Wireless network for business that requires high data security level

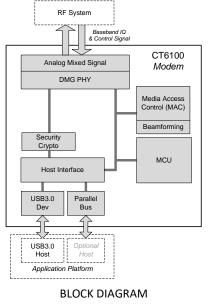
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60GHz multi-gigabits wireless baseband is designed based on IEEE 802.11ad standard. Supporting up to 4.6Gbps peak data rate, it is suitable for low-latency data demanding applications such as real-time video streaming, AirDrop, Wi-Fi Direct, and other fast transfers.

Wireless solution supports TCP/IP networking to allow user application IP connection and data transfer. USB3.0 interface used for Application Platform connectivity and various RF System options available for Custom Solution offerings.



Package Type

OVERVIEW

10.0mm x 10.0mm, 0.5mm pitch, 324-ball TFBGA (CT6100) **Reference Schematic Available**





Evaluation Kit

CT6100-M3 Starter Kit



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JUNE 2021 RELEASED