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Connecting the Lives of People

FEATURES

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

IEEE802.11ad

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

Applications

- Wireless backhaul for small cells in 5G mobile networks
- Wireless backlink for 2.4GHz/5GHz WiFi Hot Spots to Internet Gateway
- 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, Projector, NAS, Camera
- Wireless network for business that requires high data security level

Contact

Email : sales@cloptech.com
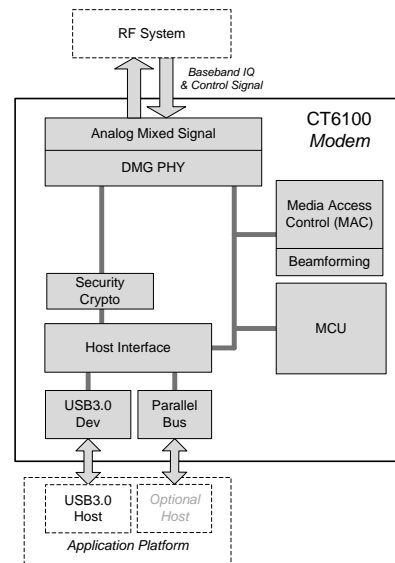www.cloptech.com

Singapore Office
73, Ayer Rajah Crescent #01-22
Singapore 139952

OVERVIEW

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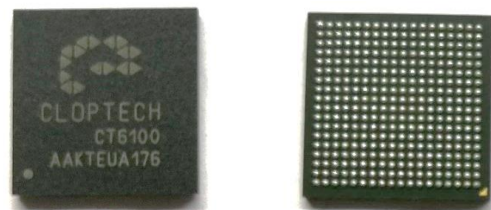
Wireless solution supports TCP/IP networking to allow user application IP connection and data transfer. USB3.0 interface used for Application Platform connectivity and various RF System options available for Custom Solution offerings.

BLOCK DIAGRAM

Package Type

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

Evaluation Kit

CT6100-M3 Starter Kit