

CLR230 Wi-Fi SoC



802.11n 2x3 MIMO SoC for High Performance Wireless HD Video Solutions

The CLR230 is a robust Wi-Fi SoC that enables a multitude of cost-effective multimedia home networking applications. Featuring a 2T3R MAC/PHY, 266-MHz MIPS4KEc CPU core, Gigabit Ethernet MAC and PCI host/device, CLR230 delivers exceptional performance at an affordable price. The CLR230 has an RF companion chip (CLR235) for dual band 2.4GHz or 5GHz operation. The CLR230 is aligned with the Celeno CL1300 and OptimizAIR™ technology and is ideally suited for applications such as multi room digital video recorders (DVR) and HD Wi-Fi networked set top boxes and TVs.



Features

802.11n MAC/BB Integrated Chip

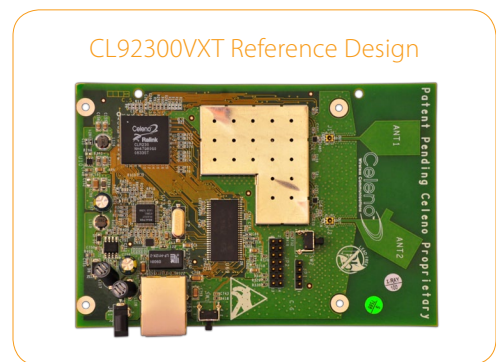
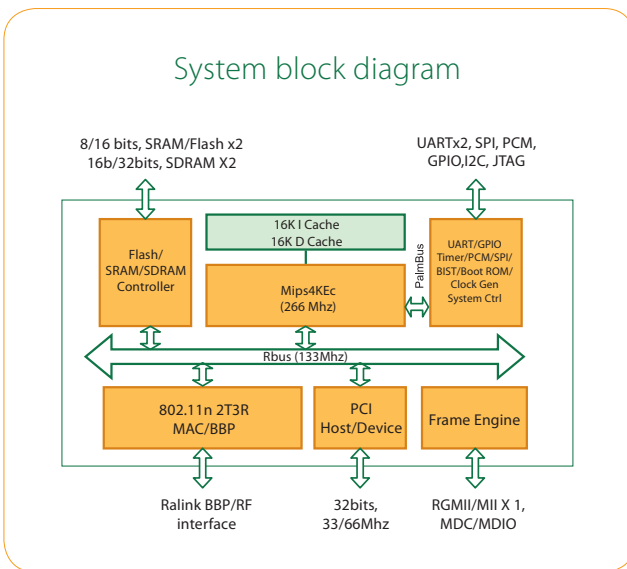
- 300Mbps PHY rate support
- 1T1R/1T2R/1T3R/2T1R/2T2R/2T3R modes
- Compressed block ACK
- Hardware frame aggregation
- 266MHz MIPS4KEc core
- RGMII/MII interface support
- PCI host controller
- Packaging: 17mm x 17mm BGA – 292

2.4GHz and 5GHz Transceiver

- Three receiver paths and two transmit paths
- Low noise filter
- High linearity
- Integrated channel-selection filters
- Integrated reconstruction filters
- Integrated low dropout regulators
- Single supply 3.0 to 3.6 V operation
- Packaging: 9mm x 9mm QFN-76

Applications

- Bridge clients for Wi-Fi video extenders
- Wireless STB for HD IPTV distribution
- Multi room DVR
- Wireless digital TV for over the top content
- Wireless HDMI extenders



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