

THE WORLD'S CELLUAR



BROADBAND LEADER

ALT4800 Chipset - Product Brief

Altair's ALT4800 features 8 RX antennas and is ideal for very high-speed, high-capacity access applications including fixed broadband Wi-Fi routers and gateways, as well as small-cells with a high-speed backhaul link.

The ALT4800 features an LTE modem SoC that supports CAT-12 throughputs of 600 Mbps downlink and 150 Mbps uplink, Release 11 features, and a high performance CPU subsystem.

The chipset incorporates state-of-the-art technologies such as MIMO decoding of up to 8x4 using Altair's

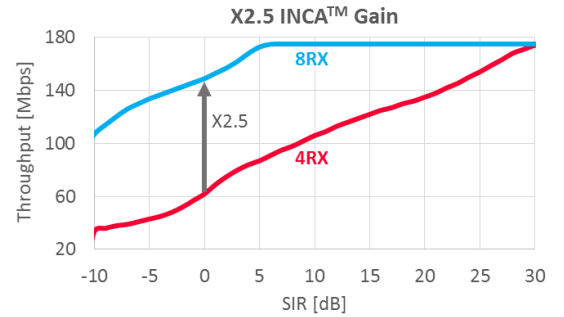
proprietary INCA™ interference cancellation, doubling LTE cell throughput. ALT4800 supports up to 3 carrier aggregation, and 4x4 MIMO decoding and beamforming in the uplink.

The ALT4800 modem implements 8x 20 MHz receive chains and 4x 20 MHz transmit chains.

In addition, the ALT4800 integrates an embedded network processor with a Linux operating system intended for OEM application development.

Highlight Features

- CAT-12, 600 Mbps DL / 150 Mbps UL
- Release 11 with advanced features including TM9/10, CSI-RS, CoMP, eICIC, feICIC, Adv-Rx, ePDCCH
- Altair's proprietary INCA™ interference cancellation
- Near-MLD MIMO decoder
- DL MIMO modes: single carrier 4x8 MIMO, 2CA 4x4 MIMO, 3CA 4x2 MIMO
- UL modes: single carrier with single/dual/quad TX, dual carrier with single TX, beamforming
- Contiguous and non-contiguous CA
- FDD and TDD
- Interfaces include: 2x SD/SDIO3.0/eMMC master, 2x SPI, RMII/RGMII/MDIO, HS USB2.0 OTG with integrated PHY, HSIC, 2x audio PCM/I2S



Ordering Information

Part Number	Description
ALT4800-A0	ALT4800 473 Balls 12x12mm BGA, 0.5mm pitch
ALT6300-C0	ALT6300 8x8mm BGA, 0.5mm pitch

