

Product Description

octoFade-module

Channel Emulation Logic Subsystem

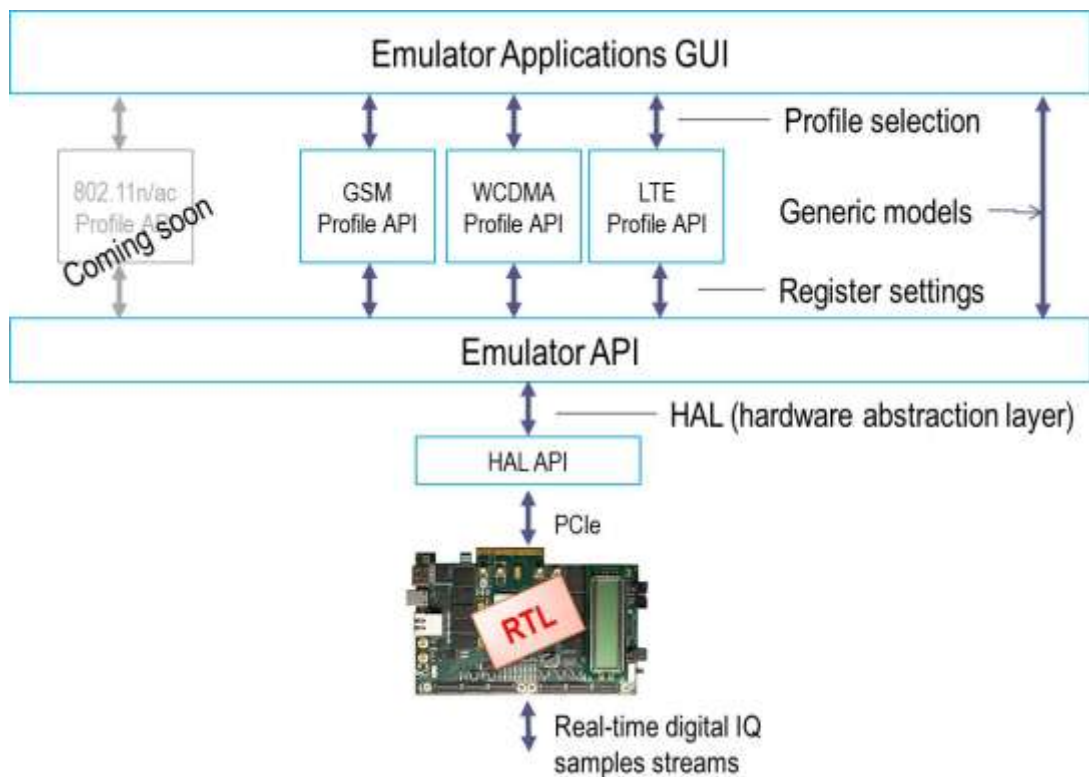
Features

- Operates on real-time IQ sample streams, directly interfacing to baseband DSP
- Easily integrated into test equipment
- Supports [3GPP certification channel models for 2G/3G/LTE](#)
- Supports AWGN and SNR configurations required for GCF/PTCRB certification

Applications

- R&D, QA and certification testing of smart phones and other wireless devices
- Testing of baseband subsystems without the RF front end
- Integration into test equipment, such as VSA/VSG or base station emulators

[octoFade-module](#) is a fully functional FPGA based channel emulator with digital IQ interfaces and sophisticated applications programming interface (API).



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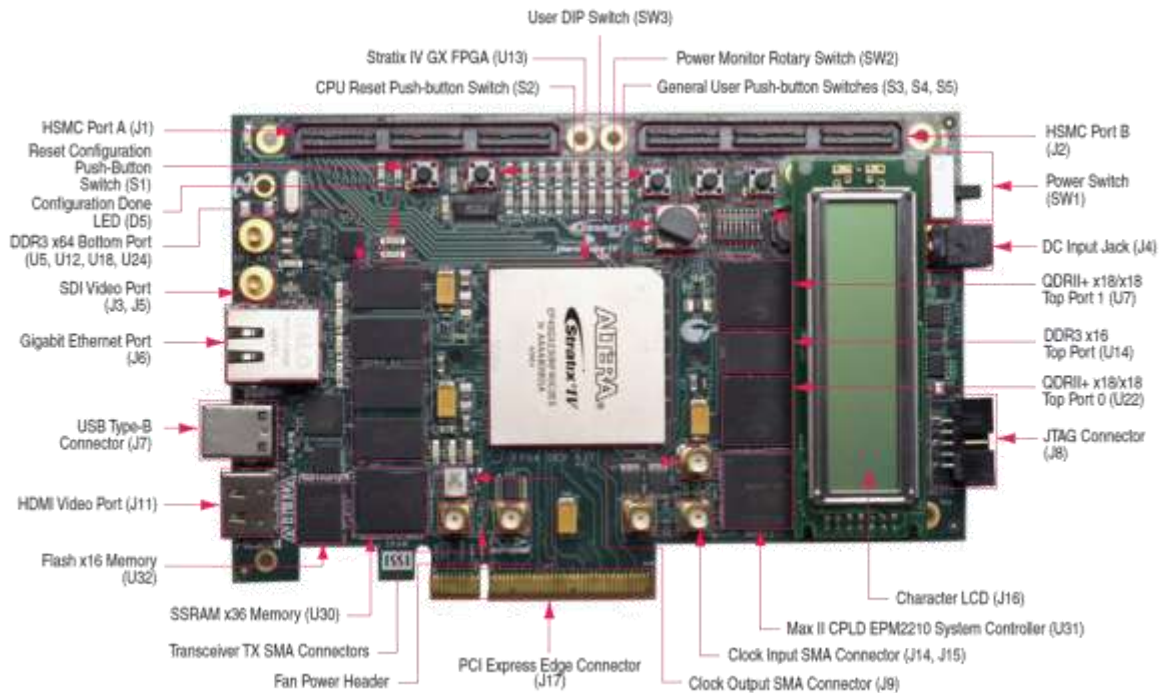
Phone: +1.978-222-3114

Visit the [octoFade website](#)

octoFade-module Specifications

Formfactor	PCIe
IQ interface	DDR HSMC Ports A and B Clock rate: 61.44 MHz Bit resolution: 16 bits I, 16 bits Q
FPGA resources [*] Stratix IV EP4SGX530KH40C2	Logic ALUTs: 97,616 used; 424,960 available (23% used) memory bits: 7,760,493 MB used; Available 21,233,664 (37% used) 18-bit DSP Blocks: 296 used; Available 1,024 (29% used)
Board memory DDR3/SSRAM x36 [*]	0 MB used; 512 MB available
PCI Express Interface	x4 PCI Express 4-lane interface to host PC for configuration and verification

octoFade-module can be programmed via PCIe bus and comes with a powerful API to configure standards based or custom channel models. The current release supports all 3GPP models and provides a generic channel modeling interface for creating custom channel models. We welcome customer inquiries about adding 802.11n/ac models.



octoFade-module is based on Stratix IV GX FPGA Development Board

Source: http://www.altera.com/literature/manual/rm_sivgx_fpga_dev_board.pdf

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