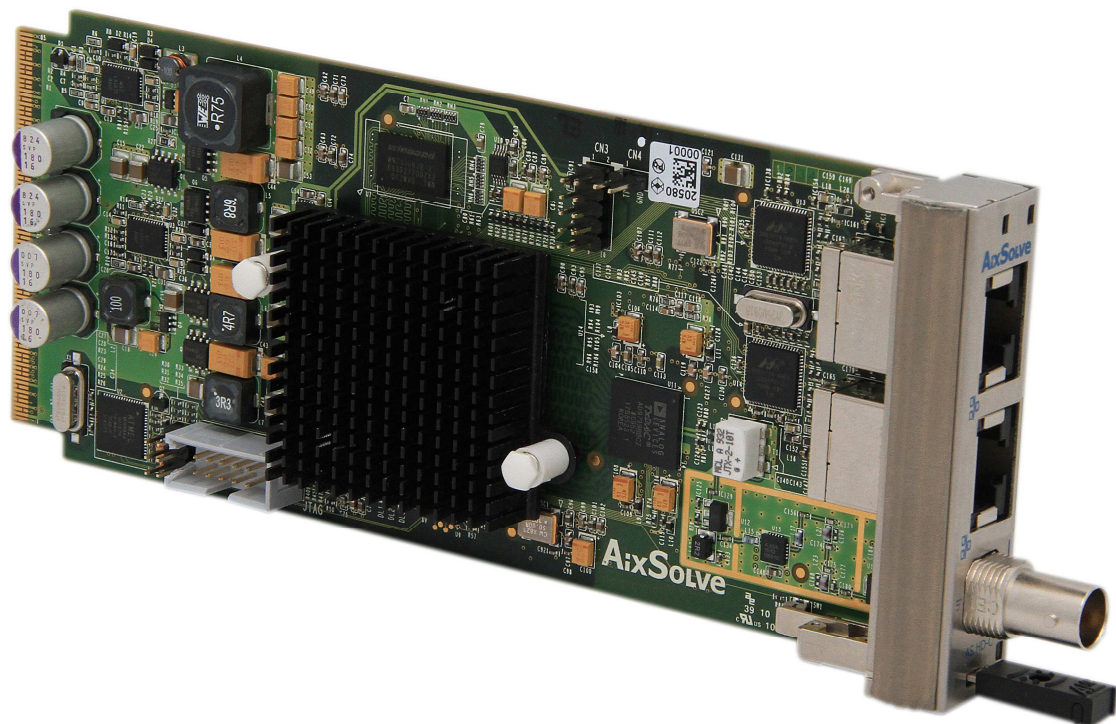


AixSolve Orion μ TCA DAC

The *AixSolve ori-dac* (μ TCA) is a mid-size I/O AMC module for the production or output of signals in the frequency range from 50 MHz to 1 GHz.

Applications include:

- The realization of various modulation methods including Up Converter Board in the desired frequency range,
- The implementation of RF or signal generator
- The direct output of high-frequency signals.



The main components of the board are the user-programmable Altera FPGA and the AD9739 DAC from Analog Devices. The DAC samples processed 2400 million 14-bit per second. A stable clock supply of 2.4 GHz is integrated on the board. Located between the DAC and the output is a controllable amplifier (-2dB to 30dB).

Furthermore, the board is equipped with a 1Gbit DDR2 RAM and two serial flashes, which can be freely used for the user's application. On the front panel as the I / O in addition to the RF output are also two Gigabit Ethernet interfaces. Three Serdes are connected to the backplane.

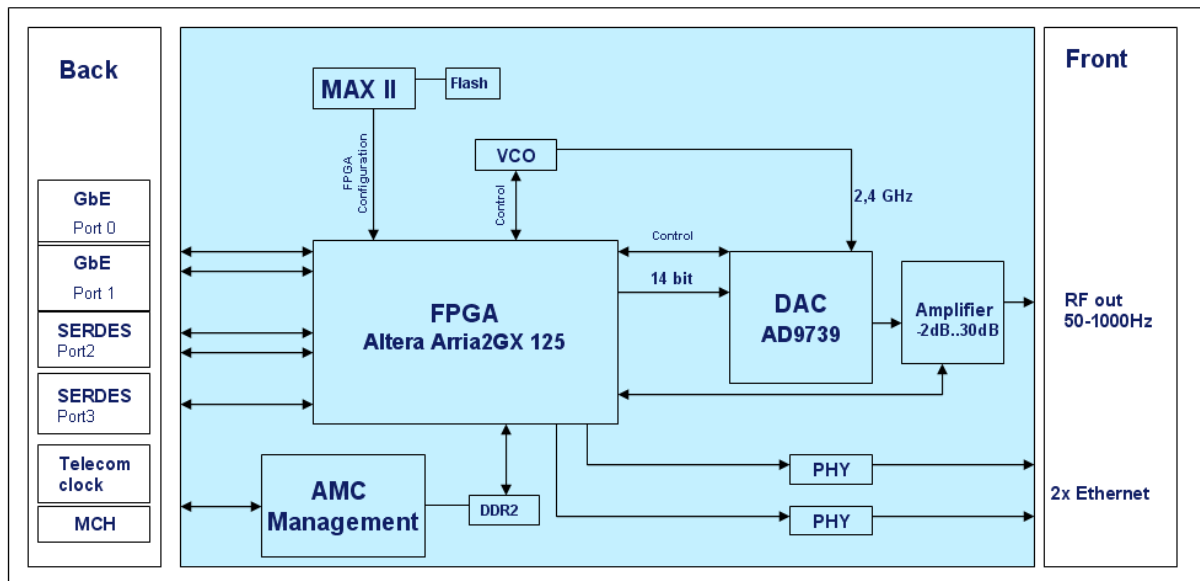
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Board Block diagram:



Analog Output	<ul style="list-style-type: none"> • 1 channel, single ended AC-coupled signal • 14-bit, 2400 MSPS • 75 Ohm • BNC connector • DAC: AD9739 + Amplifier (-2dB .. 30dB) • 50 MHz – 1000 MHz
FPGA	<ul style="list-style-type: none"> • Arria II GX 125 • 124 000 LE's • 576 18x18 bit Multiplier • 18.1 MBit internal memory • 6 PLLs • 4 x 6.375-Gbps transceivers • Framework to support customers VHDL development
AMC Connector	<ul style="list-style-type: none"> • GbE port 0 - 1 • SERDES to port 2 – 3 • Telecom clock
Front side interfaces	<ul style="list-style-type: none"> • RF • 2 Ethernet
Part number	<ul style="list-style-type: none"> • AixTC-DAC (available Q3'11)

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