

## Product Brief

The Triathlon™ TRI-VSPA210 is a VDSL2 /ADSL2+ customer premise equipment (CPE) Analog Front-End device, which must be combined with VDSL2/ADSL2+ CPE digital device Triathlon™ TRI-VSPD210 for VDSL2/ADSL2+ CPE bridge or router solution. The TRI-VSPA210 is designed from ground-up as a high performance, low power and low cost VDSL2/ADSL2+ solution for the exploding triple-play, video, and IPTV markets.

It supports all VDSL2 profiles including 8a, 8b, 8c, 8d, 12a, 12b, 17a and 30a. It can also support ADSL/ADSL2+ standards. It integrates the high performance ADC, DAC, filter, PGA, DCXO for optimal data path performance.

## Feature Highlight

- High performance CPE analog front-end (AFE) with supported bandwidth up to 30MHz for VDSL2 30a profile
- High-speed 13-bit ADC and 14-bit DAC for the receive and transmit paths
- Integrated transmission and receiving filters support all VDSL2 band plans and ADSL2 band plans.
- Build-in digital control crystal oscillator (DCXO) supports flexible clock source with 35.328MHz crystal as clock source
- Digital and analog echo cancellation supported
- Simple Power supply of 1.2V, 3.3V to minimize BOM cost
- 4th order programmable low-pass filter for both transmit and receive paths
- Support IEEE 1149.1 boundary scan
- Industrial temperature range with -40 to 85 degree
- 8mm x 8mm 64-pin QFN package, 0.4mm pitch

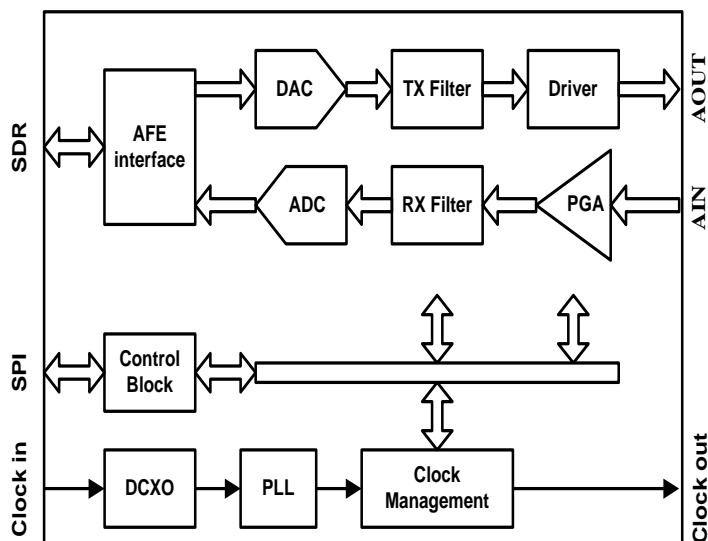


Figure 1 TRI-VSPA210 Block Diagram