100G/200G COHERENT OPTICAL TRANSCEIVER FRONTEND

AT A GLANCE

· Compact transceiver frontend based on CFP2-ACO modules for up to 32 GBd operation

· Transmitter includes linear driver amplifiers and DP-IQ modulator

· Receiver includes polarization-diverse 90° hybrid, balanced photodiodes and linear TIAs

Features

- Compact stand-alone coherent optical transceiver frontend
- Tx and LO laser integrated
- Graphical user interface (GUI) for direct user control via USB
- GbE connection for external remote control
- Also available as MicroTCA plugin card

Applications

- High-speed optical QAM signal generation and detection
- Test of coherent optical transmission systems
- Optical front-end for High-Speed DSP Platform allowing real-time DSP prototyping
Graphical user interface

Application Examples

**RECEIVER SIDE**

1. Oscilloscope

- **XI, XQ, YI, YQ**

**TRANSMITTER SIDE**

1. Optical In/Out

2. AWG

- **XI, XQ, YI, YQ**

Application examples:

- Offline system using arbitrary waveform generator and oscilloscope
- Real-time system using DAC and ADC plugin cards from High-Speed DSP Platform

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