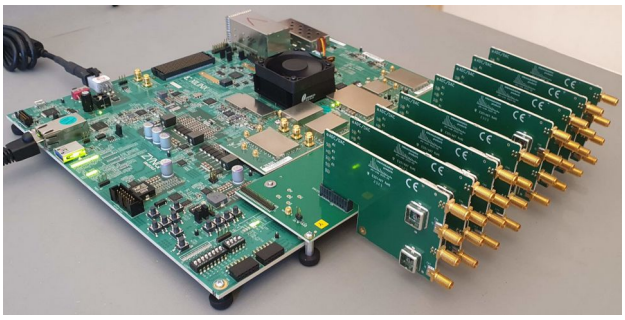
Product brief: PFE

Latest update: 2023-11-15

Intermodulation products

Modular front-end / plug-in board for 3rd generation Xilinx RFSoC evaluation kits

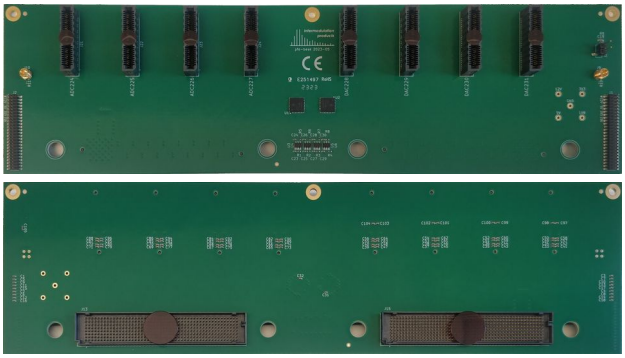
- Single-ended, 50 Ω impedance, SMA connector access to all ADCs and DACs.
- Modular design. One base card can host four output and four input modules via RF-rated board-to-board edge-card connectors.
- Each module has four input or output channels.
- Mix-and-match modules depending on application.
- Fully length-matched traces.
- Compatible with Zynq UltraScale+ evaluation boards



Base

Product name	pfe-base
# ADC module slots	4
# DAC module slots	4
Pin header	Access to 28 FPGA IO pins and power
Bottom board-to-board	RFMC 2.0
Compatibility	ZCU216, ZCU208, ZCU670

Mounting panel for mechanical support included with each pfe-base.



Modules

Product Name	Direction	Frequency range	Coupling	Impedance	Peak output power	# ports*	Function
pfe-wide	ADC & DAC	10 MHz – 10 GHz	AC	50 Ω	+4 dBm	4x SMA	Wide-band balun transformer
pfe-wamp	DAC	10 MHz – 10 GHz	AC	50 Ω	+16 dBm	4x SMA	Wide-band balun and amplifier
pfe-low	DAC	DC – 500 MHz	DC	50 Ω	+12 dBm	4x SMA	DC-coupled amplifier

* Note: when connected to ZCU208 or ZCU670 not all ports will be in use. See data sheet for details. In general, access to all ADC's and DAC's requires four ADC and four DAC modules, independent of ZCU evaluation board.

Contact us for custom analog requirements and requests.

General

Compatible with	ZCU216, ZCU208
Country of origin	Sweden
Classifications	RoHS, HS 84733020

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