

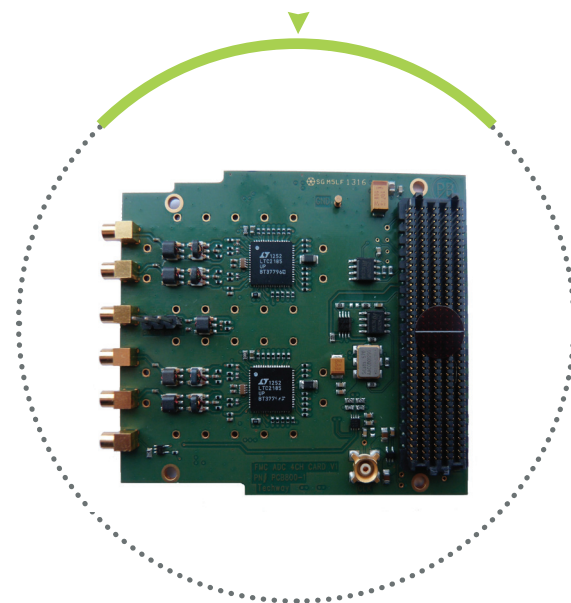
## FMC ADC 125

### Environmental information

Operating temperature range: 0°C to 50°C  
 Storage temperature range: -55°C to 125°C  
 Maximum shock range: 10g during 20ms  
 Maximum vibration range: 0.03 g<sup>2</sup>/Hz  
 Compliant with ROHS process

### Ordering information

FMC-ADC-125



The TechwaY ADC125 mezzanine is a fully compliant FMC mezzanine (VITA 57.1) which offers four 16bits A/D channels up to 125 MSPS.

The ADC125 mezzanine is based on two dual Analog-to-Digital converters from Linear Technology: the LTC2185.

This mezzanine allows you to sample your signals with your own external sampling clock. You also get the capability to use the on-board sampling clock. A trigger input is available to be able to synchronize all channels with a 1 sample accuracy.

You are able to fine-tune the ADCs through the I<sup>2</sup>C bus. ADC gain, bias and delay can be set-up according to your needs. Temperature and power monitoring can be check directly from the FPGA.

## Applications

Radar  
Sonar  
Medical equipment  
Aerospace and test measurement instruments

## Benefits

Ready To Use  
FMC – VITA 57.1 – compliant

Easy To Use  
Free SDK with example design  
TechwaY support  
Cost effective

## Sales Enquiries

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## Features

Four Sampling Channels  
One common trigger input  
One common sampling clock input  
Internal programmable clock generator available  
Selected sampling clock from external or local  
16 bits resolution  
Input range: 1Vpp  
Up to 125MHz sampling frequency  
Up to 550MHz analog bandwidth (depend of input analog stage)  
Up to 90dB SFDR  
Up to 77 dB SNR  
DDR LVCMOS/LVDS outputs

## Software Development Kit

ADC set up  
Controlling the card by I2C

## Firmware

VHDL ADC control module

## Block Diagram

