

Quick Start

DEMO TDA9935 Demonstration Board for DAC1403D160

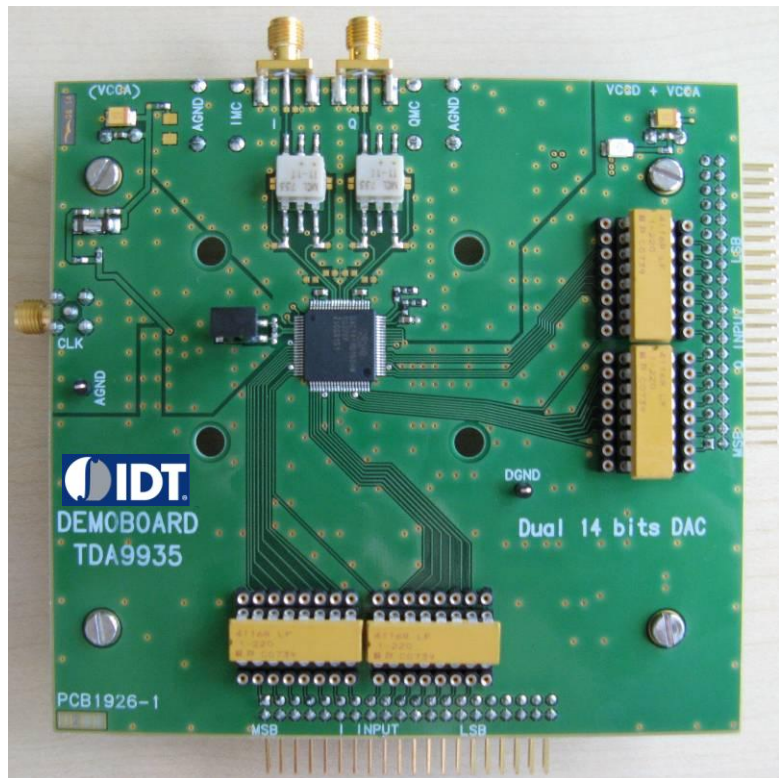
Rev. 2.0 — 2 July 2012

Quick Start

Document information

Info	Content
Keywords	DEMOBOARD TDA9935, PCB1926-1, Demonstration board, DAC, Converter, DAC1403D160
Abstract	This document describes how to use the demonstration board DEMOBOARD TDA9935 for the digital-to-analog converter DAC1403D160.

Overview



Revision history

Rev	Date	Description
2.0	20120702	Rebranded.
0.1	20080801	Initial version.

1. Quick start

1.1 Setup overview

[Figure Fig 1](#) presents the connections to measure DAC1403D160.

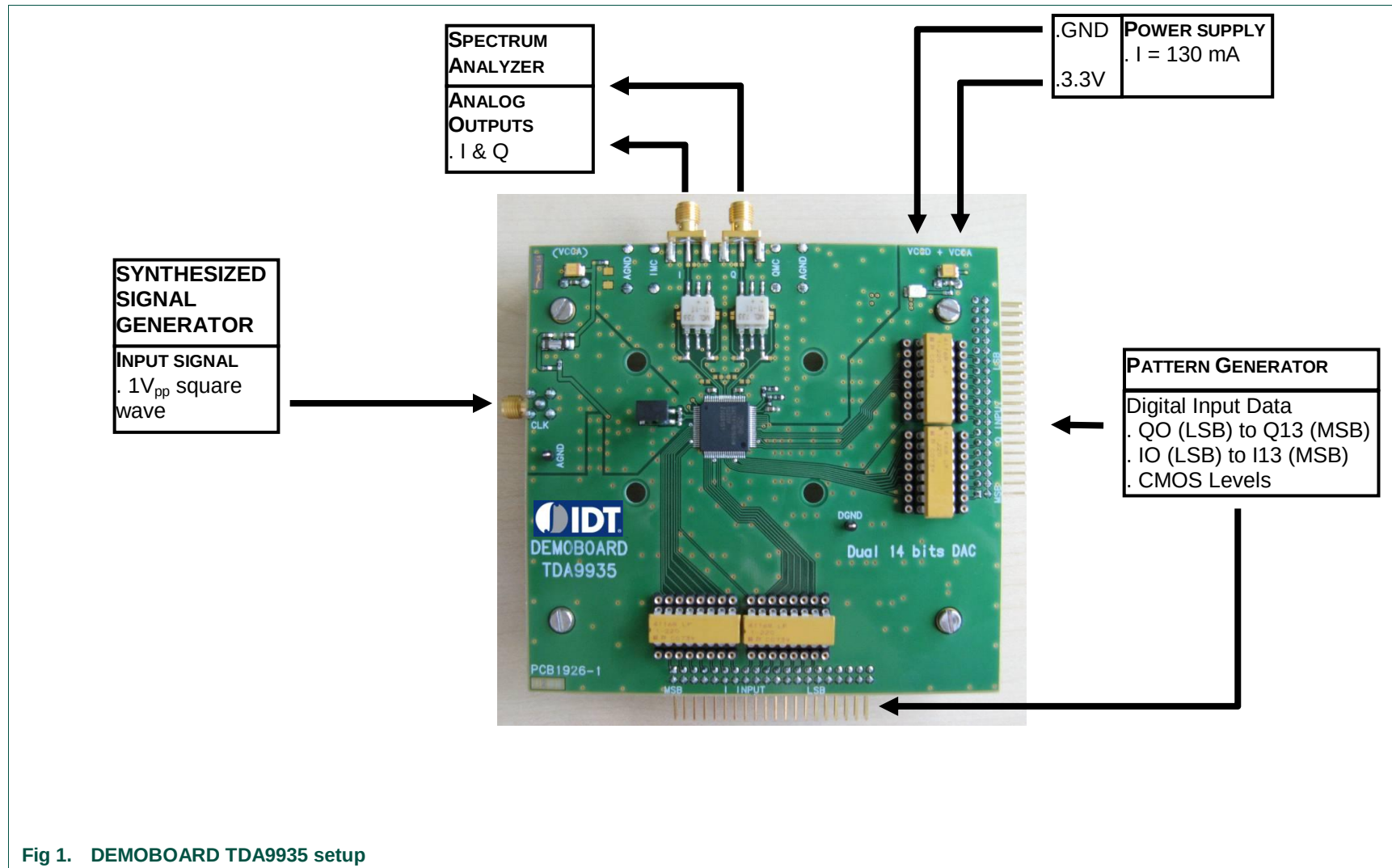
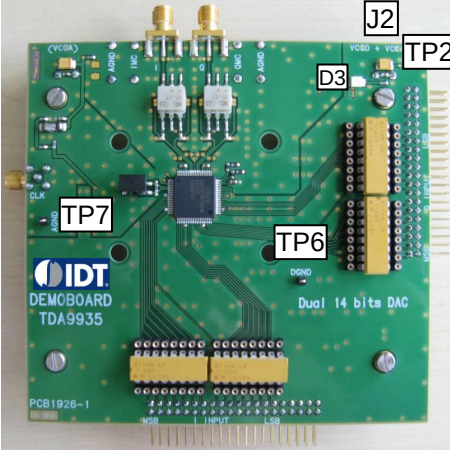


Fig 1. DEMOBOARD TDA9935 setup

1.2 Power supply

The board is powered with a single 3.3 V_{DC} power supply.

Table 1. General power supply

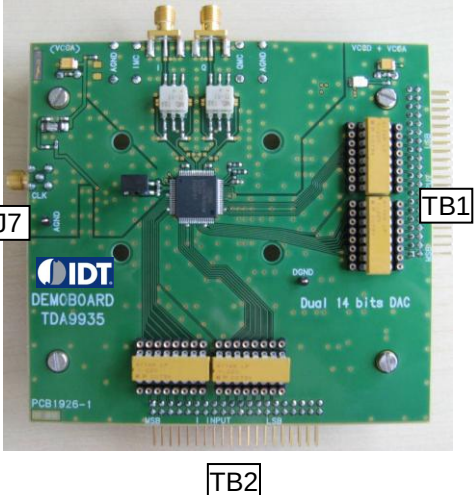
Name	Function	View
J2	+3V3 green connector – Power supply 3.3 V _{DC} / 130 mA.	
D3	PWR green light – It indicates the good supply plugging	
TP6	DGND test point – Digital ground	
TP7	AGND test point – Analog ground	
TP2	+3V3 test point	

1.3 Input signals (Digital inputs I0 to I13, Q0 to Q13, CLK)

The input clock signal is square wave. The common mode of 1.65V is set on the demonstration board.

The digital Inputs are CMOS compatible.

Table 2. Input signals

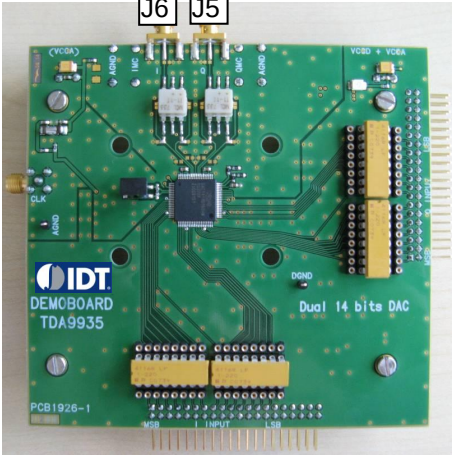
Name	Function	View
J7	CLK connector – Clock input signal (50Ω matching)	
TB1	Array connector – DAC digital input (Q0 to Q13)	
TB2	Array connector – DAC digital input (I0 to I13)	

1.4 Output signals (I & Q)

The analog output signal is 1Vpp.

The 1:1 transformers make the differential to single ended conversion.

Table 3. Output signals

Name	Function	View
J5	DAC analog output. I channel.	
J6	DAC analog output. Q channel.	