DSPE-592
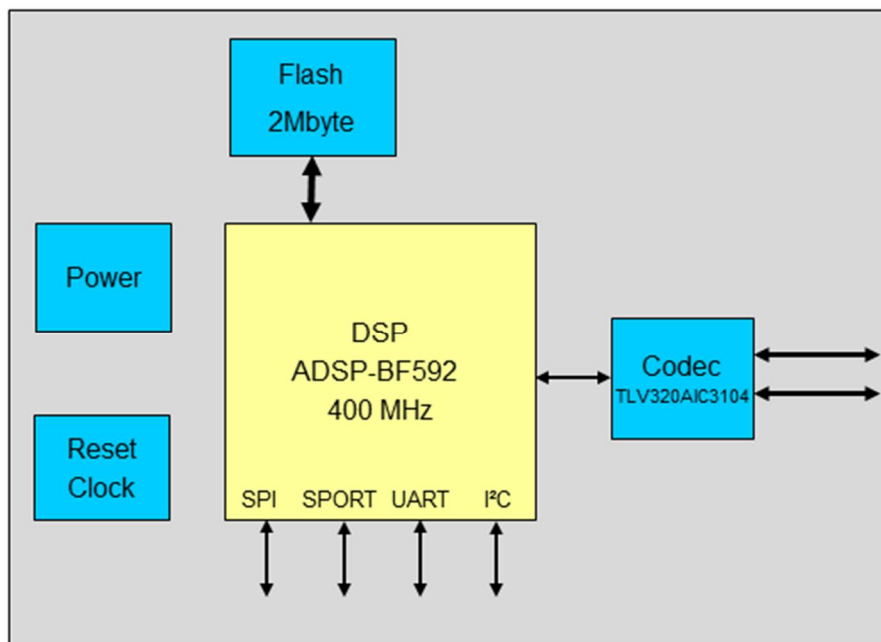# 2 x 2 Telecom System

OVERVIEW

DSPECIALISTS telecom front-end module DSPE 592 is a compact DSP module based on Analog Devices ADSP-BF592. It allows processing of analog audio signals with a sample rate of 8 kHz up to 96 kHz and 24 Bit.

Due to its on-board flash memory DSPE-592 is capable to run as a stand-alone system. It can be easily embedded into any customer-specific environment.

DSPE-592 covers a wide range of embedded telecommunication tasks like noise cancellation, echo cancellation, Voice over IP, and audio transmission. The board is accompanied with hardware drivers and a software framework. Software for echo cancellation and noise cancellation is also available and can be licensed in a bundle with the hardware board.

KEY FEATURES

· Stand-alone 16-Bit DSP system
· Stereo analog input and output
· Adaptable to customer-specific hardware
· Echo cancellation algorithm available
· Noise cancellation algorithm available
· Software framework for customer-specific algorithms

Technical Specification

·	Processor:	ADSP-BF592 / up to 400 MHz / 16 bit fixed point
·	Memory:	68k bytes internal SRAM at core speed
		up to 2 MByte Flash, serial interface, 75 MHz bus speed
·	Audio channels:	2 fully differential inputs (line or mic) and 2 fully differential line outputs
		8 to 96 kHz sample rate
		(optional 4 single ended inputs, headphone output)
·	Serial interface:	UART, I2C, SPI, I2S, GPIOs
		JTAG connector, various boot options
·	Power supply:	3.3 V only, typ. 50mA (default)
·	Ambient temperature range:	0ºC to +70ºC (standard) or –40ºC to +85ºC (extended)
·	Outline:	51 mm x 27 mm
		All signals at 2 base-board connectors (2 mm pitch, dual row, 50 pins)

CONTACT US

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ABOUT US

The products of DSPECIALISTS are marked by our use of tried and tested standard components. And they can be tailor-made to meet your individual requirements. The range of products and services provided by DSPECIALISTS includes customer-specific modules as well as complete systems. We use DSPs, PCs, micro controllers and programmable logic in our development Work.

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