

## Excellent Integrated System Limited

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[NXP Semiconductors/Freescale Semiconductor, Inc.](#)  
[ADC1212D125F2/DB,598](#)

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Type	Related Document	Description
ADC1212 series	ADC121204S4C8	ADC121204 demo board, both CMOS and LVDS
ADC121205 series	ADC121205S0C8	ADC121205 demo board, both CMOS and LVDS
ADC121205S1C8	ADC121205S1C8	ADC121205 demo board, both CMOS and LVDS
ADC121205S2C8	ADC121205S2C8	ADC121205 demo board, both CMOS and LVDS
ADC14105 series	ADC14105S0C8	ADC14105 demo board, both CMOS and LVDS
ADC14105S1C8	ADC14105S1C8	ADC14105 demo board, both CMOS and LVDS
ADC14105S2C8	ADC14105S2C8	ADC14105 demo board, both CMOS and LVDS
ADC14115 series	ADC14115S0C8	ADC14115 demo board, both CMOS and LVDS
ADC14115S1C8	ADC14115S1C8	ADC14115 demo board, both CMOS and LVDS
ADC14115S2C8	ADC14115S2C8	ADC14115 demo board, both CMOS and LVDS
ADC14130 series	ADC14130S0C8	ADC14130 demo board, both CMOS and LVDS
ADC14130S1C8	ADC14130S1C8	ADC14130 demo board, both CMOS and LVDS
ADC14130S2C8	ADC14130S2C8	ADC14130 demo board, both CMOS and LVDS
ADC14135 series	ADC14135S0C8	ADC14135 demo board, compliant with external FPGA boards through specific connectors
ADC14135S1C8	ADC14135S1C8	ADC14135 demo board, compliant with external FPGA boards through specific connectors
ADC14135S2C8	ADC14135S2C8	ADC14135 demo board, compliant with external FPGA boards through specific connectors
ADC14155 series	ADC14155S0C8	ADC14155 demo board, compliant with external FPGA boards through specific connectors
ADC14155S1C8	ADC14155S1C8	ADC14155 demo board, compliant with external FPGA boards through specific connectors
ADC14155S2C8	ADC14155S2C8	ADC14155 demo board, compliant with external FPGA boards through specific connectors
ADC14170 series	ADC14170S0C8	ADC14170 demo board, compliant with external FPGA boards through specific connectors
ADC14170S1C8	ADC14170S1C8	ADC14170 demo board, compliant with external FPGA boards through specific connectors
ADC14170S2C8	ADC14170S2C8	ADC14170 demo board, compliant with external FPGA boards through specific connectors
ADC14195 series	ADC14195S0C8	ADC14195 demo board, compliant with external FPGA boards through specific connectors
ADC14195S1C8	ADC14195S1C8	ADC14195 demo board, compliant with external FPGA boards through specific connectors
ADC14195S2C8	ADC14195S2C8	ADC14195 demo board, compliant with external FPGA boards through specific connectors
ADC14195W0C8	ADC14195W0C8	ADC14195 demo board, compliant with external FPGA boards through specific connectors
ADC14195W1C8	ADC14195W1C8	ADC14195 demo board, compliant with external FPGA boards through specific connectors
ADC14195W2C8	ADC14195W2C8	ADC14195 demo board, compliant with external FPGA boards through specific connectors
ADC14195W3C8	ADC14195W3C8	ADC14195 demo board, compliant with external FPGA boards through specific connectors
ADC14195W4C8	ADC14195W4C8	ADC14195 demo board, compliant with external FPGA boards through specific connectors
ADC14195W5C8	ADC14195W5C8	ADC14195 demo board, compliant with external FPGA boards through specific connectors
ADC14195W6C8	ADC14195W6C8	ADC14195 demo board, compliant with external FPGA boards through specific connectors
ADC14195W7C8	ADC14195W7C8	ADC14195 demo board, compliant with external FPGA boards through specific connectors
ADC14195W8C8	ADC14195W8C8	ADC14195 demo board, compliant with external FPGA boards through specific connectors



NXP high-speed  
ADC/DAC selection guide

## High-speed ADC/DAC solutions for wideband communication and industrial applications

Available with three different data interfaces (including JESD204A), our high-speed ADC/DAC solutions deliver best-in-class speed, size, and integration.

### High-speed single/dual ADCs

- Resolution: 8 to 16 bits
- Sampling rates: 20 to 250 Msps
- Supply voltages: 1.8 / 3.3 / 5.0 V
- Serial interface: Input buffer, internal  $V_{DD}$ , JESD204A, and dual digital interfaces
- Low power dissipation
- Excellent SFDR and SNR ratings
- Packages: HVQFN, QFP, SSOP, LQFP, HTQFN

### High-speed dual DACs

- Resolution: 10 to 16 bits
- Sampling rates: 125 to 750 Msps
- Supply voltage: 1.8 / 3.3 V
- Low power dissipation
- Excellent SFDR ratings
- Interpolation: 2x, 4x, 8x
- JESD204A and other digital interfaces
- Packages: HVQFN, HTQFN, LQFP

The ADC family uses either a folding or pipeline architecture to provide best-in-class dynamic performance at the lowest possible power dissipation. There are options that support the high-speed architecture required for Flash architecture, while others provide the low bandwidth/high resolution combination required for Sigma-Delta architectures, and general-purpose options that meet the needs of Success Approximation Register architectures.

Our new single- and dual-channel ADCs portfolio comprises some fifty models with resolutions of 10, 11, 12, 14 and 16 bits, optional input buffers, and optional JESD204A compliant digital outputs. Typical performance ranges from 84 dBc SFDR at Fin = 170 MHz and Fck = 125 Msps input sample rate.

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# Distributor of NXP Semiconductors/Freescale Semiconductor, Inc. : Excellent Integrated Solutions

## Datasheet of ADC1212D125F2/DB,598 - BOARD EVALUATION FOR ADC1212D125

### Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

The analog-to-digital converter has a 12-bit, dual sample channel of 125 MspS, with a 16-bit digital output. The integrated architecture and output error correction guarantees no missing codes over the full operating range. The DAC140BD750 phase register, under SPI serial bus control, the DAC140BD750 includes two auxiliary DACs for external analog offset control. It also offers both power down and sleep modes in addition to other features.

CGV™ (Convertisseur Grande Vitesse) designates NXP's compliant, superscalar implementation of the JEDEC JESD204A interface standard, with enhanced rate (4.0 Gbps typical), enhanced reach (100 cm typical), enhanced features (multiple DAC synchronization) and assured FPGAs interoperability.