

256 Channel 16 Bit Charge To Digital Afe On Flex Data

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256 Channel 16 Bit Charge

The 256-channel ADAS1256 digital X-ray AFE is the industry's first single-chip solution to integrate the complete charge-to-digital conversion signal chain by incorporating low-noise programmable-charge amplifiers, correlated double-sampling circuitry, and 16-bit A/D converters. With a noise figure of an equivalent charge of 560 electrons at a 2-picocoulomb full-scale range, the ADAS1256 enables high resolution digital X-ray images while reducing patient exposure to X-ray dose.

Analog Devices' 256-Channel, 16-Bit Digital X-Ray Analog ...

ADAS1256 The ADAS1256 is a 256-channel, charge-to-digital analog-front end (AFE) mounted on high density flex. It can be directly mounted on a digital X-ray panel. It is suitable for a large variety of digital FEATURES. 256-channel, charge-to-digital conversion on a single chip 16-bit resolution with no missing codes Simultaneous sampling User adjustable full-scale range 32 pC Down 22 μ s line time.

ADAS1256 datasheet - The ADAS1256 is a 256-channel, charge ...

The ADAS1256 is a 256-channel, charge-to-digital analog-front end (AFE) mounted on high density flex. It can be directly mounted on a digital X-ray panel. It is suitable for a large variety of digital X-ray and photodiode array applications and it works with both hole sensing and electron sensing panels. ADAS1256 allows up to 22 μ s line time, so

ADAS1256 Datasheet and Product Info | Analog Devices

The ADAS1256 is a 256-channel, simultaneous sampling, high dynamic range, low power analog front end that is a complete charge-to-digital conversion signal chain. It incorporates 256 low noise integrators, low pass filters, and correlated double samplers that are multiplexed into a high speed, 16-bit, A/D converter.

256-channel, 16-bit digital X-ray analog front end ...

The ADAS1256 is a 256-channel, 16-bit, digital X-ray analog, front end (AFE) that integrates the complete charge-to-digital, conversion signal chain on a single chip. It enables a wide range, of digital X-ray modalities, including portable radiology and, mammography as well as high speed fluoroscopy and cardiac, imaging.

ADAS1256 datasheet(1/3 Pages) AD | 256-Channel, 16-Bit ...

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ADAS1256* PRODUCT PAGE QUICK LINKSLast Content Update: 06/09/2017COMPARABLE PARTSView a parametric search of comparable parts.DOCUMENTATIONData Sheet• ADAS1256: 256-Channel, 16-Bit, Charge-to-Digital AFE onFlex Data SheetREFERENCE MATERIALSPress datasheet search, datasheets, Datasheet search site for Electronic Components and Semiconductors, integrated circuits, diodes and other semiconductors.

ADAS1256 datasheet(2/3 Pages) AD | 256-Channel, 16-Bit ...

The ADAS1256 is a 256-channel, simultaneous sampling, high dynamic range, low power analog front end that is a complete charge-to-digital conversion signal chain. It incorporates 256 low noise...

Analog Devices' 256-Channel, 16-Bit Digital X-Ray Analog ...

The device includes 256 integrators, a programmable gain amplifier (PGA) for full-scale, charge-level selection, a correlated double sampler (CDS) with dual banking, 256:4 analog multiplexers, and four 16-bit, successive-approximation register (SAR) analog-to-digital converters (ADCs) onboard.

AFE1256 data sheet, product information and support | TI.com

The DDC2256A is a 24-bit, 256-channel, current-input analog-to-digital (A/D) converter. It combines both current-to-voltage integration and A/D conversion so that 256 individual low-level current output devices, such as photodiodes, can be directly connected to its inputs and digitized in parallel (simultaneously).

DDC2256A data sheet, product information and support | TI.com

The AS5850A is a 16-bit, 256-channel low-noise charge-to-digital converter designed for use in digital X-ray systems. The high degree of programmability enables system performance optimization in a wide range of applications.

Medical Imaging Digital X-Ray ReadOut IC | ams

The M9217A is a single slot 2-channel PXle digitizer with sample rate up to 20 Msa/s and resolution of 16-bit. Inputs are isolated and can measure up to \pm 256 V making it suitable for applications such as automotive, Aerospace/Defense and Industrial.

M9217A PXle Isolated Digitizer, 2-channels, 16-bit, \pm 256 V ...

The 256-channel ADAS1256 digital X-ray AFE is the industry's first single-chip solution to integrate the complete charge-to-digital conversion signal chain by incorporating low-noise programmable-charge amplifiers, correlated double-sampling circuitry and 16-bit A/D converters.

Analog Devices, Inc. : Analog Devices' 256-Channel, 16-Bit ...

*Data logger with 5.7" color display, with 8 channels, 256 MB on-board flash memory, Lan/USB PC I/F, 16-bit resolution, high isolation per channel (125 VAC RMS and 350 VDC channel-to-chassis)"

Graphtec DL900 Data Logger 8 channel 256MB, 16 Bit res

An 8-bit image can only contain a maximum of 256 shades of gray, while a 16-bit image can contain up to 65,536 shades of gray. Even though both gradients looked identical to us when we started, those 16 thousand plus extra possible shades of gray gave us a lot more flexibility with our edits and made it far less likely that we would see any ...

8 Bit Color vs 16 Bit Color - Working With 16 bit Images ...

256 colors in total. 8bit images are commonly used in games to save on memory for textures and sprites. ... you have about 10-11bits of precision per channel in 16 bit floating point compared to 16 bit in 16 bit int (this is 2048 values per channel in the 0-1 range). Required for HDR/Scene referred images, and often known as 'half floating ...