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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,

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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

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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

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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-

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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 22us line time, so

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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

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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-

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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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The ADAS1256 is a 256-channel, simultaneous sampling, high dynamic range, low power analog front end that is a complete charge-to-digital

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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

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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)

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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

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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.

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Medical Imaging Digital X-Ray ReadOut IC | ams

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

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M9217A PXIe Isolated Digitizer, 2-channels, 16-bit, ± 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,

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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

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Data

(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

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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

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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 ...

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