The first ever dual channel, S-band ADC for space applications, the EV12AD550A

+ S-band direct digitization in space systems

The EV12AD550A

This dual channel 1.5GSps ADC supports high dynamic range at 4.5GHz and performs direct digitization at S-band, Synthetic Aperture Radar systems can operate this ADC at 5.5GHz.

Nyquist zone	NPR	ENOB
NZ1	50 dB	9.8 bit
NZ2	48 dB	9.5 bit
NZ3	46 dB	9.2 bit

S-band direct digitization can remove as many as three down conversion stages in the signal processing system. Sending just 1kg into Geostationary Transfer Orbit (GTO) can cost up to $40k, reducing system Size, Weight and Power-Cost (SWaP-C) consumption is critical.

The EV12AD550A is the first dual-channel S-band capable ADC to feature chain synchronization for electronic steering, offering full flexibility in antenna array and digital beamforming systems, perfect for modern satellite systems.

Suitable applications

+ Electronically steered antenna arrays and beamforming systems
+ Synthetic Aperture Radar systems
+ Satcom payloads

Learn more

Visit the resource hub for the EV12AD550A to read our white paper explaining how this ADC boosts economics in agile high throughput Satcom payloads

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