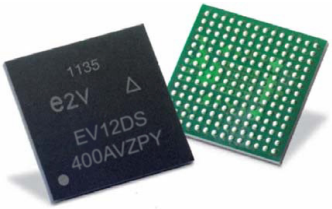
The 12-bit DAC for spectral purity up to 7GHz, the EV12DS400A

+ Enabling direct digital synthesis in the microwave domain

The EV12DS400A

This groundbreaking DAC provides an analog bandwidth extending beyond 7GHz facilitating multi-band, direct digital synthesis in the L, C and S-bands. Furthermore 30ps rise/fall times and sampling rates up to 4.5 GSps makes this part ideal for time domain applications.



Four output coding modes offer design flexibility and help simplify frequency planning along with an option for program pulse shaping. This unique device can deliver spectral power up to and beyond the fourth Nyquist zone.

NPR with -14 dBFS loading factor at 4.5 GSps:

Nyquist zone	Output mode	NPR	ENOB
NZ1	NRTZ	47.5 dB	9.4 bit
NZ2	NRTZ	42 dB	8.5 bit
NZ3	RF	39 dB	8 bit

The EV12DS400 offers features to simplify design-in for many sophisticated RF systems.

Suitable applications

+ Arbitrary waveform generators
+ Direct digital synthesis for broadband applications
+ Automatic test equipment
+ Radar waveform signal synthesis

Learn more

Visit the resource hub for the EV12DS400A to read our white paper explaining how this microwave data converter performs direct digital synthesis from DC to 7 GHz and beyond

teledyne-e2v.com/DS400