

# The world's first space grade C-band DAC, the EV12DS130A/BG



## The EV12DS130A/BG

Meet the 12-bit, 3 GSps DAC that's had over 1,500 flight models delivered worldwide. Its ability to operate directly in C-band is ideal for SWaP-C conscious space applications wanting to operate at L, S or C-band, as it facilitates the removal of costly, and often bulky, frequency converters, contributing to reduced system requirements and orbit costs.



### Suitable applications

- + Telecommunications satellite payloads
- + Satellite data links
- + Direct digital synthesis in L, S and C-bands

### NPR with -14 dBFS loading factor:

Nyquist zone	Output mode	NPR	ENOB
NZ1	NRTZ	51.3 dB	10 bit
NZ2	NRTZ or RTZ	44.6 dB	8.9 bit
NZ3	RF	42.5 dB	8.6 bit

The rad-tolerant design has earned QML Class V qualification and is easily interfaceable with space grade FPGAs, aiding to simplified system design. The device exhibits no sensitivity up to 110 Krad TID, the radiation report can be found at [teledyne-e2v.com/DS130xG](http://teledyne-e2v.com/DS130xG).

LEO and GEO applications will benefit from the single core architecture as it ensures high performance and stability in environments with frequent and severe temperature cycles.

### Learn more

Visit the resource hub for the EV12DS130A/BG to access the datasheet for full specs and performances.

[teledyne-e2v.com/DS130xG](http://teledyne-e2v.com/DS130xG)