

Our most advanced, most versatile, quad-core, multi-channel ADC



+ The world's first 12-bit ADC to feature an integrated CPS

The EV12AQ600

The first 12-bit ADC to feature a Cross Point Switch (CPS), the EV12AQ600 can operate its four cores simultaneously, independently or paired, to assign its 6 GSps sampling speed across the user's desired channel count:

- Quad-channel at 1.5 GSps
- Dual-channel at 3 GSps
- Single-channel at 6 GSps



With different grade classes available, including a radiation tolerant version, the EV12AQ600 is suitable for an array of applications and is the most versatile and customizable ADC from Teledyne e2v.

ENOB/SFDR in 4-channel mode

| Nyquist zone | Output level | ENOB | SFDR |
|--------------|--------------|----------|---------|
| NZ1 | -1 dBFS | 8.7 bits | 71 dBFS |
| NZ2 | -1 dBFS | 8.4 bits | 63 dBFS |
| NZ3 | -1 dBFS | 8.1 bits | 64 dBFS |
| NZ4 | -8 dBFS | 8.3 bits | 66 dBFS |
| NZ5 | -8 dBFS | 8.2 bits | 67 dBFS |

Suitable applications

- + Spaceborne systems
- + Ultra-wideband MW backhaul systems
- + Data acquisition

Learn more

Visit the resource hub to download the datasheet or request a sample.

www.e2v.com/AQ600

Evaluation Module by SP Devices

Utilizing their patented **ADX technology**, **SP Devices** have built an **EVM** based on the **EV12AQ600**, available at e2v.com/AS350.

