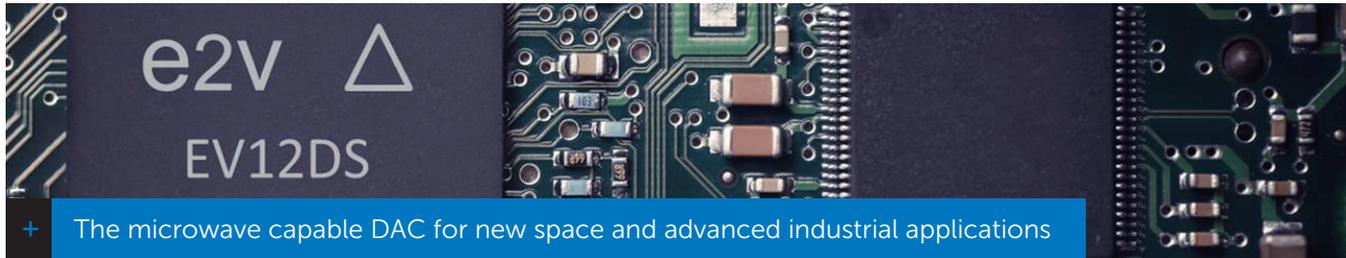


# The 8GSps DAC with clean signal generation at up to 26.5GHz, the EV12DS480

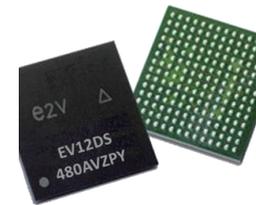


## The EV12DS480

Introducing the new evolution of the award winning EV12DS4xx series, EV12DS480 now provides broader possibilities of frequency planning configurations for system designers and solid performance stability. EV12DS480 benefits from Teledyne e2v investment in advanced test technology to extend significantly the range of minimum guaranteed DAC performances at up to 8GSps.

The datasheet's minimum performance guarantees are given at frequency levels that were never achieved before.

EV12DS480 is also ready for space applications, designed for new space systems, and will be offered in various reliability grades including NASA level 1.



### SFDR at 6.4GSps

| Nyquist zone | Output mode | Frequency | SFDR   |
|--------------|-------------|-----------|--------|
| NZ1          | NRTZ        | 3180 MHz  | 58 dBc |
| NZ2          | RF          | 6380 MHz  | 52 dBc |
| NZ7          | RF          | 22380 MHz | 43 dBc |
| NZ8          | RF          | 25480 MHz | 38 dBc |

### NPR at -14dBFS Loading Factor at 8GSps

90% Nyquist – 4:1 Mux ratio – IUCM4 mode

| Nyquist zone | Output mode | NPR     | Equivalent ENOB |
|--------------|-------------|---------|-----------------|
| NZ8          | RF          | 35.0 dB | 7.8 bit         |
| NZ9          | RF          | 35.0 dB | 7.8 bit         |

### NPR at -14dBFS Loading Factor at 6.4GSps

90% Nyquist – 4:1 Mux ratio – IUCM1 mode

| Nyquist zone | Output mode | NPR     | Equivalent ENOB |
|--------------|-------------|---------|-----------------|
| NZ1          | NRTZ        | 44.0 dB | 8.8 bit         |
| NZ2          | NRTZ        | 39.5 dB | 8.1 bit         |

### SFDR at 8GSps, 4:1 MUX ratio and IUCM4 mode

| Nyquist zone | Output mode | Frequency | SFDR   |
|--------------|-------------|-----------|--------|
| NZ9          | RF          | 8020MHz   | 53 dBc |
| NZ9          | RF          | 8980 MHz  | 45 dBc |

