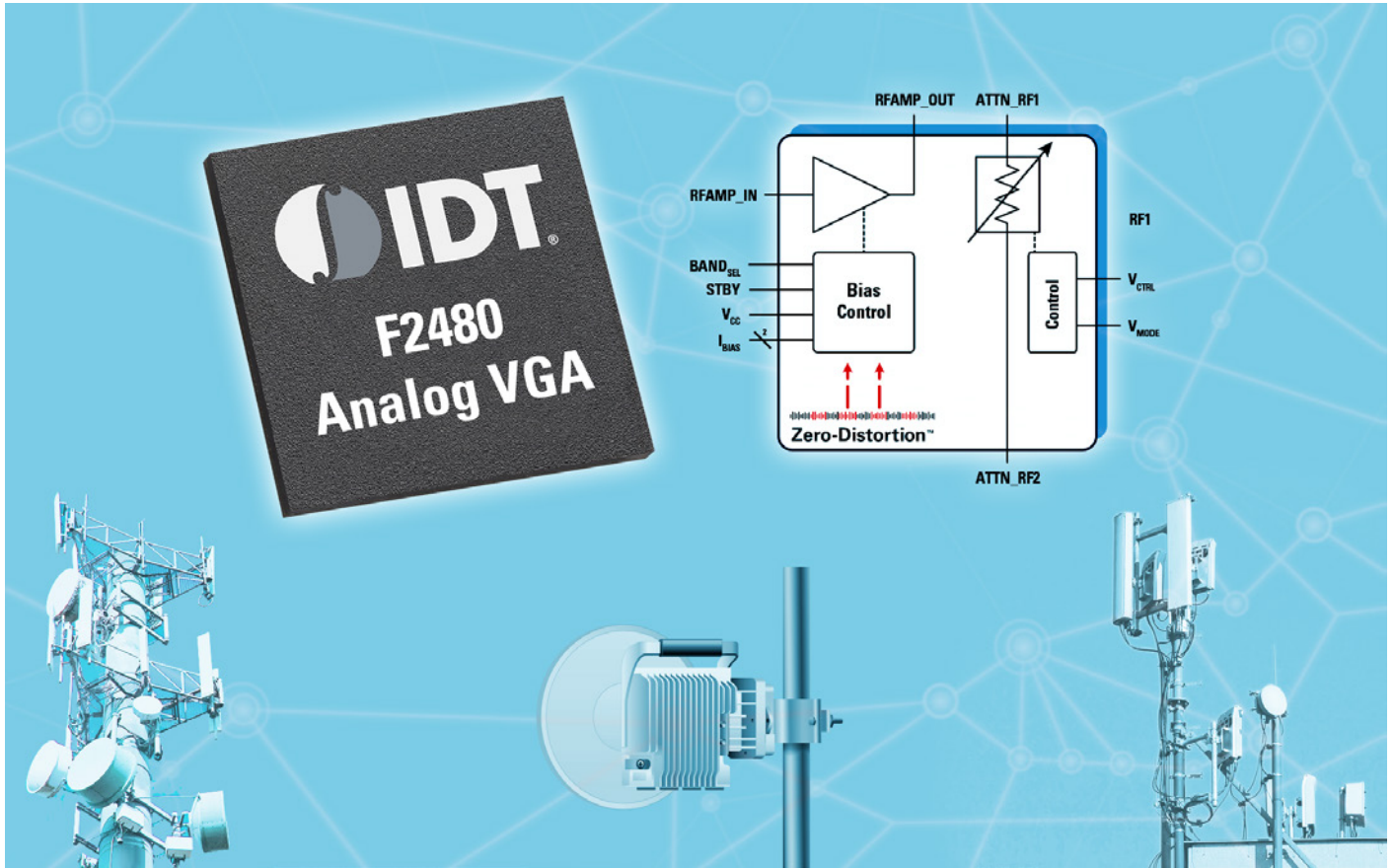


# F2480 Broadband RF Analog VGA



## FEATURES

- 400 to 3000 MHz (Amplifier Range)
- 50 to 6000 MHz (Attenuator Range)
- 12dB typical cascaded max gain
- 36dB continuous gain range
- Excellent linearity +41.5dBm OIP3
- Noise Figure 4.3dB
- $I_{CC} = 106\text{mA}$
- 1.2mA Amplifier Standby Current
- Bi-directional attenuator RF ports
- 5 x 5 mm, 32-TQFN package

The F2480 is a 400 to 3000 MHz RF Analog Variable Gain Amplifier (AVGA) that can be used in receivers, transmitters and other applications. Either the amplifier or voltage variable attenuator (VVA) can be configured as the first stage in the cascade.

The F2480 RF AVGA provides 12dB typical maximum cascade gain (no attenuation) with 4.3dB noise figure (amplifier as first stage) and 36dB gain adjustment designed to operate with a single +5V supply. Nominally, the amplifier offers +41.5dBm output IP3 using 106mA of  $I_{CC}$ .

This device is packaged in a 5 x 5 mm, 32-TQFN with 50; single-ended RF input and RF output impedances for ease of integration into the signal-path lineup.

## TYPICAL APPLICATIONS

- Multi-mode, Multi-carrier Receivers
- WiMAX and LTE Base Stations
- Point-to-point Infrastructure
- Public Safety Infrastructure
- Broadband Repeaters
- GPS Receivers
- Distributed Antenna Systems
- Cable Infrastructure
- Digital Radio