

Teledyne e2v HiRel Announces Availability of New TDGD271 and TDGD274 Drivers for GaN FETs

Single/Dual 4-Amp isolated gate drivers with high transient immunity for high reliability industrial, military and power applications. SCDs are supported, devices are tested and shipped from Teledyne's certified US production facility

MILPITAS, CA – November 11th, 2021 – [Teledyne e2v HiRel](#) today announced availability of a pair of new isolated gate drivers ideally suited for driving GaN power parts used in a wide variety of power supply, dc/dc converter, battery management systems (BMS), Point-of-Load (POL) modules and motor control applications.

The [TDGD27x](#) isolated gate drivers utilize silicon isolation technology, supporting up to 2.5 kVRMS. This technology enables industry leading common-mode transient immunity (CMTI), tight timing specifications, reduced variation with temperature and age, better part-to-part matching, and 100% AC/DC testing at -55 °C to 125 °C.

The TDGD271 is a single channel driver with very low jitter, offered in an 8-pin SOIC package. The TDGD274 dual channel driver can be driven with PWM (pulse width modulated) inputs and is offered in a 16-pin SOIC package. The TDGD27x family devices are ideal for a wide range of isolated MOSFET/IGBT and SiC or GaN HEMT gate drive applications, including driving Teledyne HiRel's TDG family of [GaN HEMTs](#). Their small size and wide temperature range (-55 to +125 °C) make them unique.

“Many power applications are taking advantage of the reduced size and higher efficiency made possible by wide band-gap (WBG) semiconductors. However, there was a lack of supporting functions suitable for the most demanding high reliability applications,” said Mont Taylor, VP of Business Development at Teledyne HiRel. “The TDGD isolated gate drivers are available with 100% screening and from one diffusion lot, making them a natural choice for the most demanding systems.”

Devices are available for ordering and shipment today from Teledyne e2v HiRel or an [authorized distributor](#). They are shipped from our DoD Trusted Facility in Milpitas, California.

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Teledyne HiRel's innovations lead developments in space, transportation, defense, and industrial markets. HiRel's unique approach involves listening to the market and application challenges of customers and partnering with them to provide innovative standard, semi-custom or fully-custom solutions, bringing increased value to their systems. For more information, visit <http://www.tdehirel.com>

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