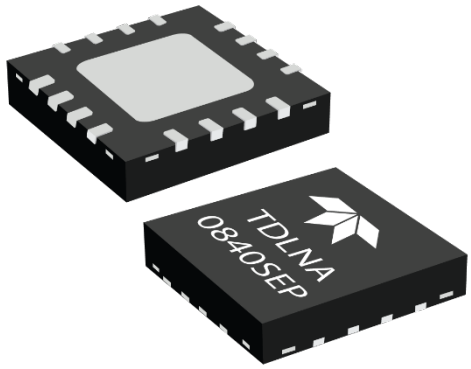
TELEDYNE | HiRel Semiconductors

Teledyne HiRel Semiconductors Unveils Space-Screened, Ultra-Low Power 4 GHz Wideband Low Noise Amplifier

Powering efficient, high-performance RF front ends for modern space missions

GARLAND, Texas — June 3, 2026 — Teledyne HiRel Semiconductors, a business unit of Teledyne Technologies Incorporated (NYSE: TDY) and a leading supplier of high-reliability RF and microwave solutions, announced the TDLNA0840SEP, a space-screened, ultra-low-power, wideband low-noise amplifier (LNA) designed to support the growing demands of satellite constellations in low Earth orbit (LEO) and medium Earth orbit (MEO), spaceborne communications and advanced RF front-end architectures.



Building on the proven performance of the TDLNA0840 family, the TDLNA0840SEP delivers high-sensitivity signal reception in power- and space-constrained environments, enabling improved system performance while reducing size, weight and power (SWaP). Space-level screening simplifies qualification and helps lower program risk across mission-critical deployments.

Optimized for satellite payloads, phased-arrays and telemetry systems, the amplifier provides consistent, low-noise performance across a wide frequency range, supporting next-generation communications and resilient space architectures at scale.

“Today’s space programs demand solutions that balance performance, power efficiency and reliability,” said Mont Taylor, Vice President of Business Development, Signal and Power Switching. “The TDLNA0840SEP enables high-performance RF front ends with simplified qualification and mission-ready reliability.”

TDLNA0840SEP Highlights

- Space-screened for mission-critical LEO and MEO applications
- Ultra-low-power operation enabling SWaP-efficient designs
- Wideband coverage from 0.3 to 4.0 GHz
- High-gain and low-noise figure for sensitive receiver performance
- Compact, internally matched package for simplified integration

Target Applications

- Satellite payloads and spaceborne receivers (LEO and MEO)
- Phased array and active RF front ends
- Space communications and telemetry systems
- SWaP-constrained platforms

Availability

The TDLNA0840SEP is available now. Devices are screened for space applications. Evaluation boards and technical documentation are available to accelerate design-in and qualification. Contact us for ordering information.

ABOUT TELEDYNE HIREL SEMICONDUCTORS AND TELEDYNE AEROSPACE & DEFENSE ELECTRONICS

Teledyne HiRel Semiconductors, part of Teledyne Aerospace & Defense Electronics, delivers high-reliability semiconductor solutions for aerospace, defense, space and industrial applications, with a focus on solving critical customer challenges through standard, semicustom and fully custom offerings. Teledyne Aerospace & Defense Electronics provides a broad portfolio of highly engineered solutions for demanding environments across avionics, energetics, electronic warfare, missiles, radar and surveillance, satellite communications, air and space, and test and measurement.

ABOUT TELEDYNE TECHNOLOGIES

Teledyne Technologies is a leading provider of sophisticated digital imaging products and software, instrumentation, aerospace and defense electronics, and engineered systems. Teledyne's operations are primarily located in the United States, the United Kingdom, Canada, and Western and Northern Europe. For more information, visit teledyne.com

Media Contact:
Sharon Fletcher
Teledyne Aerospace & Defense Electronics
+1 323-241-1623 | sharon.fletcher@teledyne.com