



FOR IMMEDIATE RELEASE

ESSENTIAL TRANSCEIVER OFFERS A COMPACT FORM FACTOR WITH ARINC 801 DISCONNECT FOR HARSH ENVIRONMENTS

July 2021 — Radiall, a global leader in developing and manufacturing innovative interconnect solutions, is proud to announce the new Essential package, which will expand the D-Lightsys® range of ruggedized optical transceivers.

Essential package is designed to withstand mil/aero environments and fully complies with the related standards (ARINC, MIL). Fitted with both optical and electrical disconnects, this new package enables easy handling on the host board. Both the transceiver and optical cable assemblies are tool-less removable and exchangeable, thanks to a disconnect locking system. A fixing screw provides a robust mechanical behavior during operation.

With one Tx and one Rx channel, this transceiver's pluggable LuxCis® (ARINC 801) interface offers a straight, full connection to many optical connectors, such as ARINC and MIL-DTL-38999 types.

The transceiver offers a balanced trade-off between form factor and cost per channel while maintaining a high level of performance in demanding environments.

Key optoelectronic functions for transceiver monitoring and management are available in I²C through the electrical plug-in connector.

Main Features:

- 1 transmitter + 1 receiver channel
- Operating range: -40 to +90 °C
- Data rate: 0.1 to 5 Gbps
- Tx complies with class 1 laser product (IEC 60825-1/2)
- Rx sensitivity <-15 dBm at 5 Gbps over the full temperature range
- Optical link budget > 11dB at 5 Gbps with a 10⁻¹² BER
- Size: 26.6 x 13.1 x 7.95 mm, with mechanical fixture

Interfaces:

- 30-pin electrical plug-in connector for data, power and main survey functions
- I²C bus for advanced monitoring
- ARINC 801 (LuxCis) compliant optical receptacle
- Compatible with 50/125 µm and 62.5/125 µm multimode fiber

About Radiall

Radiall is a global manufacturer of leading-edge interconnect solutions. The company offers an extensive range of RF coaxial connectors and cable assemblies, coaxial switches, fiber optic and microwave components, multipin connectors and more. Radiall has sales offices and subsidiaries throughout the world, R&D in the U.S., Europe and China, along with manufacturing facilities strategically located in the U.S., Mexico, India and China.

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