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E-Light: Compact, Robust and Designed for Harsh Environments

March 2025— Radiall, a global leader in interconnect solutions, announces the launch of its latest optoelectronic innovation—the E-Light Transceiver. Designed to meet the stringent demands of aerospace, defense and industrial applications, the E-Light Transceiver delivers a unique combination of compact form factor, robust performance and tool-less optical connectivity.

With a one-channel transceiver (1 Tx + 1 Rx) and an ARINC 801 optical disconnect, the E-Light Transceiver is engineered to simplify handling on host boards while ensuring high-performance optical communication. Its small footprint (25.1 x 13.1 x 7.95 mm) and lightweight design offer a cost-effective solution for high-reliability applications where space and efficiency are critical.

Meeting ARINC and MIL standards, the E-Light Transceiver ensures reliability in harsh environments while delivering a high optical link budget for data transmission. Its advanced monitoring capabilities via an I²C bus provide real-time performance tracking, including optical signal detection and input power monitoring. Additionally, its shielded housing protects against electromagnetic interference (EMI) and the pluggable electrical interface with easy screw-mount installation ensures quick and secure deployment in critical applications such as digital video communication, radar, sensor interconnects, data processing and industrial data links.

The E-Light Transceiver offers a balanced trade-off between performance and cost per channel, providing a competitive edge over existing solutions due to its lower power consumption, enhanced optical link budget (>11 dB @ 5 Gbps) and protocol-agnostic compatibility.

Main Features

- Qualified for harsh environments
- Small form factor
- Tool-less removable optical patch cord with ARINC801 contact
- High optical link budget

For more information on Radiall's E-Light, please contact a Radiall sales representative or visit www.radiall.com.

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