
FOR IMMEDIATE RELEASE

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Firecomms Collaborates with Egrtech in Developing Highly Efficient Silicon Carbide (SiC) Gate Drivers

Ireland, 29 April 2019

Firecomms, a global leader in the provision of fibre optic solutions and optical transceivers, is pleased to announce its collaboration with Egrtech, a worldwide provider of power electronic solutions in renewable energies and industrial applications, in the development of highly efficient silicon carbide gate drivers using robust and reliable optical communication solutions.

Firecomms RedLink[®] transceivers and Plastic Optical Fibre (POF) provide galvanic isolation on the data control lines of Egrtech's EGDR-90 SiC gate driver board. This half bridge 1200 V 100 kHz solution can work with DC bus voltages up to 1 kV and is compliant to a 5 kVrms isolation test voltage. Moreover, its direct mount low-inductance design has, for parallel connections, excellent current sharing performance and is ideal for use in applications such as solar power converters, EV and HEV as well as variable speed motor drives.

Furthermore, a high dV/dt immunity is achieved by the integration of a plug-on POF module using Firecomms RedLink[®] 5 Mbd dual voltage transceivers. The vertical RedLink[®] solution combined with a Firecomms' cable assembly using high-grade POF has been tested and certified for use in industrial applications and the severe environmental conditions in which many of these drives operate.

“The increased power density of SiC gate drivers result in significantly higher EMI compared to traditional IGBT solutions. To overcome this challenge, the POF link provides an added level of immunity for the drive controller.” says **Emre Uzun**, Director at Egrtech.

Dr John Lambkin, Firecomms' European Managing Director and Chief Technical Officer adds, “We always walk the extra mile to support our customers. Our POF solutions can be customized for link length and connector type. Firecomms provides diverse custom alternatives including vertical, horizontal, and tilted transceiver options to better fulfil our customers' requirements.”

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About Firecomms

www.firecomms.com

Firecomms, a global leader in the provision of fiber optic solutions and optical transceivers, efficiently combines state-of-the-art compound and silicon semiconductor technologies with innovative small-scale integration for rugged communications over short links and across high-voltage isolation barriers as well as in networking links utilizing the unique benefits of Plastic Optical Fiber (POF) and related optical fiber products. The RedLink® series consists of a range of DC to 1, 5, 10 and 50 MBd transceivers in industry standard interconnect systems (horizontal, vertical and 30° tilted) while the company's innovative OptoLock® plugless transceivers and industry standard LC transceivers support both the DC-50 MBd designs as well as 125-250 Mbps applications.

Firecomms is jointly headquartered in Cork, Ireland and Tongxiang, China and is supported by a global footprint of distribution and logistics teams with facilities in the USA, Europe, Shanghai and Southeast Asia. In Ireland, R&D is driven by an experienced team of Ph.D. researchers and engineers, while world-class manufacturing is based in China.

About Egrtech

<http://www.egrtech.com/>

Egrtech is a global provider of power electronic solutions in renewable energies and industrial applications. The company designs innovative solutions to address its client's specific requirements to enable them to optimize their systems across numerous industrial sectors. The main goal of company is to improve the performance, increase the robustness and extend the lifetime of power electronic products. The company is able to provide schematic, PCB layout (Altium Designer), software code, power simulation (PSIM) based on customer requirements.

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