

GaN Transistor Targets Consumer, Industrial and Data Center Applications

[GaN Systems'](#) GS-065-018-2-L 650-V 78-m Ω GaN transistor expands the company's high-performance, low-cost transistor portfolio and features lower on-resistance, increased robustness and thermal performance, and an 850-V V_{DS} (transient) rating. According to the vendor, this device empowers designers to further improve efficiency, thermal management, and power density performance while increasing design flexibility and cost-effectiveness to meet new demands from consumer, industrial, and data center customers.

The transistor's industry-standard 8-mm \times 8-mm PDFN form factor eases customer adoption, scalability, and commercialization (see the figure). Its 78-m Ω on-resistance complements that of the company's 150-m Ω GS-065-011-2-L and 50-m Ω GS-065-030-2-L. The GS-065-018-2-L targets 100-W to 800-W adapters, consumer and industrial power supplies, LED drivers, bridgeless totem-pole PFC circuits and motor drives.

The GS-065-018-2-L is now available for purchase from GaN Systems' distributors. For more information, see the product [page](#) to download datasheets and more.



Figure. Housed in an 8-mm \times 8-mm PDFN package, the GS-065-018-2-L is a 650-V, 18-A, 78-m Ω bottom-side cooled transistor well suited for smaller and lighter consumer adapters for laptops and gaming consoles and enables higher power density and efficiency in televisions and server SMPSs.