SMD to Thru-Hole conversion kit for configuring existing application easily from SJ-MOS to X-GaN power transistors.

Overview
The PGA26ExxBA-DB001 consists of 2 boards, i.e. DAB004 which is an aluminum base board with the X-GaN power transistor mounted and DAB005 which has the dedicated X-GaN driver mounted. This kit allows easy replacement of existing application that uses thru-hole packages SJ-MOS e.g. TO-220/TO-247 with X-GaN power transistors. Users only need to provide the PWM input signal to the IN pin and DC power supply to the VCC pin on the kit during assembly. The wide spacing between the Drain and Source pins provides flexibility on mounting the kit.

Features
- **DAB004: X-GaN Power Board**
  - Aluminum base board allows additional heatsink to be attached and has low thermal impedance
- **DAB005: Specific Driver Board**
  - Wide input VCC range from 4.75V to 24V
  - Negative voltage generator and active miller clamp built-in
  - UVLO and over-temperature protection
  - Optimized layout for gate connection to DAB004 allows dv/dt of more than 30V/ns

Application
- Power supply, Rectifier, Totem-pole PFC, LLC, Charger, Inverter, Motor driver, PV inverter

EVB Part Number | Key Device Part Number
--- | ---
PGA26E07BA-DB001 | X-GaN 70mΩ - PGA26E07BA, X-GaN Driver - AN34092B
PGA26E19BA-DB001 | X-GaN 190mΩ - PGA26E19BA, X-GaN Driver - AN34092B

Block diagram outline