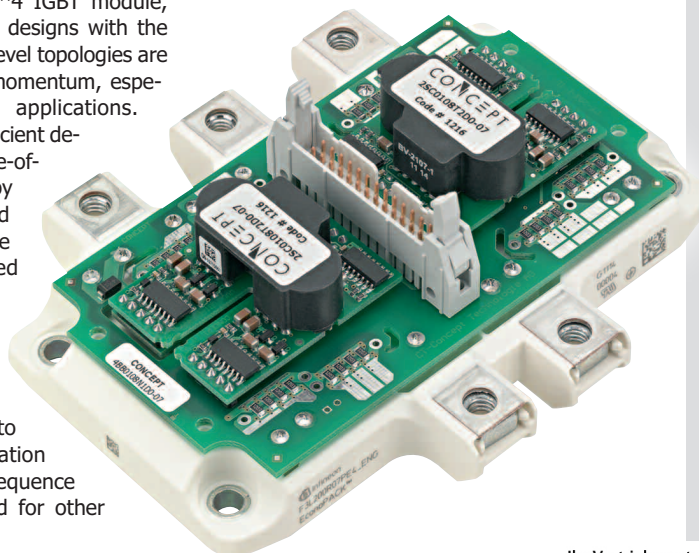


SCALE-2® Basic Board

4BB0108N – Using 25C0108T2D0-07 in Multilevel Designs

Creating a plug-and-play solution with CONCEPT design support and gate driver cores.

The 4BB0108N1D0-07 is a basic board for the Infineon EconoPACK™4 IGBT module, which supports multilevel designs with the 25C0108T2D0-07. Three-level topologies are gaining more and more momentum, especially in solar inverter applications. CONCEPT supports the efficient design work towards a state-of-the-art inverter solution by providing a basic board which fits the module shape, includes advanced active clamping and all the necessary protection features expected of an intelligent gate drive. The advanced active clamping allows the user to disregard the implementation of any special turn-off sequence for the IGBTs as required for other gate drive solutions.



KEY BENEFIT

Fast and efficient development of a customized plug-and-play design based on driver core and CONCEPT application know-how.

KEY FEATURES

- ▶ Basic board for Infineon EconoPACK™4 IGBT module NPC1
- ▶ Plug-and-Play
- ▶ 3-level NPC optimized
- ▶ No SC turn-off sequence
- ▶ Blocking voltages up to 650V per switch
- ▶ Switching frequency up to 20kHz
- ▶ Very short delay time of <100ns
- ▶ Gate current ±8A
- ▶ +15V/-8V gate driving
- ▶ Regulated gate-emitter voltage
- ▶ Compatible with all logic families
- ▶ Flexible fault management
- ▶ IGBT short-circuit protection
- ▶ Advanced active clamping
- ▶ Isolated DC/DC converter
- ▶ 4 x 1W output power
- ▶ Supply under-voltage lockout
- ▶ Creepage and clearances for reinforced insulation acc. to IEC60664-1

APPLICATIONS

- ▶ Multilevel designs with IFX NPC1-modules
- ▶ Solar inverters
- ▶ UPS systems