

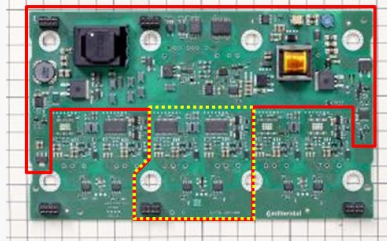
CONTINENTAL INVERTER CIRCUIT ANALYSIS REPORTS

- Product used in the I-PLACE EV

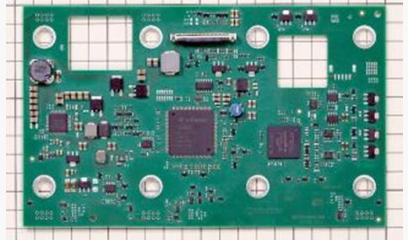
I-Place is the first EV from Jaguar. LEC Corporation released three reports of the inverter unit: a teardown report, a detailed circuit analysis report of the IGBT control PCB, and a detailed circuit analysis report of the main control PCB.



Inverter unit



IGBT control PCB



Main control PCB

Product outline

- This E-Axel Inverter* unit has a very compact design with module height of merely 90mm.
- The inverter consists of an IGBT control, inverter control, power module, and DC link capacitor.

Basic features

IGBT control PCB: Internal Power Supply, Communication, High-side Driver, Low-side Driver, Current Sensor

Main control PCB: Internal Power Supply, FPGA & peripherals, and MCU & peripherals, Communication Interface

*E-Axel Inverter: This inverter is integrated with the traction motor, and gearbox of the E-Axle drive system.

Report content & Prices

Report Type	No. of Pages	Report Content	Report No.
Teardown	63	Teardown and component list	20G-0001-1
IGBT Contr.	45	PCB layer images, components list, function block diagram, component-level schematic, cross-reference viewer tool	20G-0001-2
Main control PCB	40		20G-0001-3

Note1: Since there are the identical circuits in the board, detailed circuit analysis was performed for only one of them: the area within the red box in the above image.

Note2: The report price may change over time. For current price contact info@ltecusa.com.

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