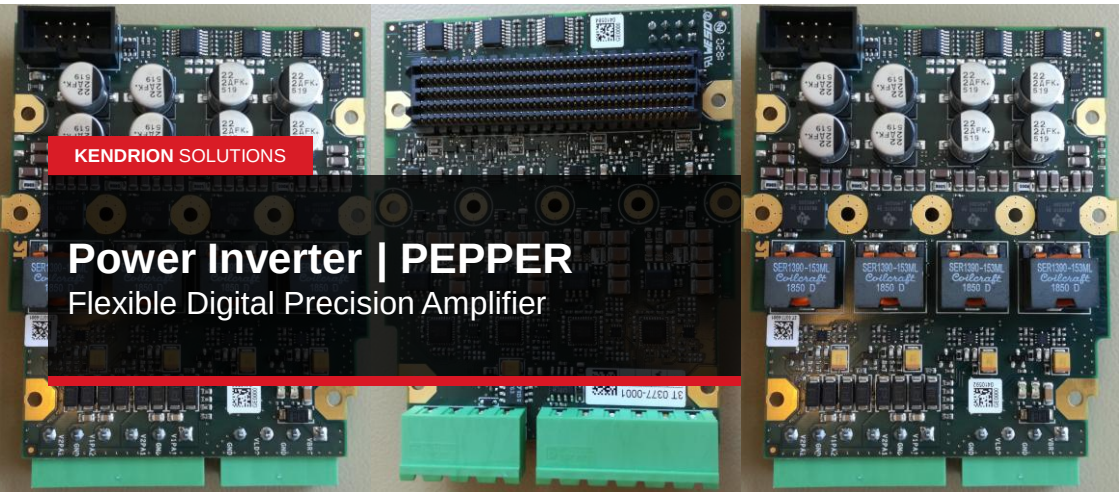
KENDRION



High performance & flexibility

PEPPER delivers precise voltage and current control across a wide range of loads, from capacitive to inductive. Its scalable architecture combines high accuracy, efficiency and bandwidth for demanding power and motion control applications.

Key Features

- Scalable output power from **100 W to 100 kW**
- High efficiency, accuracy, and bandwidth up to **100 kHz**
- Multi-channel **GaN | SiC FET-based** power amplifier
- Configurable **as source or load**: current | voltage | power | impedance
- High power density enabling compact designs
- Wide load impedance range: capacitive | resistive | inductive
- Multilevel power amplification
- Overload and short-circuit protection

FPGA Control & Model-Based Design

PEPPER integrates with our MINT FPGA platform and other FPGA development boards through FMC. MATLAB/Simulink support enables rapid development and validation of advanced control algorithms.

The next step in Power Electronics

Interested in our platforms?
Tell us about your use case and let's explore the possibilities.

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PEPPER FMC Specifications

Technology	GaN
Channels	4
Supply voltage	0 to 50 V
Output voltage	0 to 48 V
Output current	-5 A to +5 A
Output ripple	< 50 mVpp @ 50 V
Current noise	< 500 µArms @ 5 A
Efficiency	Up to 98%
Output power	4 x 48 V x 5 A = 960 W
Inputs	Hall | Encoder

Applications

– Voice coils
– Lorentz actuators
– Piezo actuators
– Galvanometers
– BLDC motors
– Ironless motors
– Reluctance motors
– AC induction motors
– DC motors
– Solenoids
– Active loads
– Battery cell (dis)charging
– Power supplies
– Heaters
– Laser & LED modulation

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Explore our expertise