Maxim Integrated: DC-DC converters overview

Abstract:

This presentation will first introduce *Maxim Integrated* corporation, the market segments and applications as well as the R&D activities and locations. The second part of the seminar will be focused on DC-DC converters for high-efficiency Power Management Integrated Circuits (PMIC). Power conversion is a basic chapter in Analog Design and Maxim is a recognized leader in in this field. The seminar is aimed to present the basics of these design techniques. A review of converter topologies, with emphasis on the modes of operation, control and compensation techniques, is presented. Design challenges, requirements and specifications for different application areas (Automotive, Industrial, Telecom,…) are then described. The talk is concluded by showing design examples from the company products.

Speaker:

Luca Bertolini *graduated in Electronic Engineering from Politecnico di Milano in 1988. Spent eight years as DE in ST-Microelectronics working in integrated motor drivers for data-storage product area, seven yeas in Motorola/Freescale (France) in Automotive working on ESP/ABS as Design Group Leader. Joined Maxim in 2005 as Design Director. He worked on PMIC for Display, DC-DC converters, Gate Drivers. He is responsible of design teams based in Italy and India working on Industrial Power Product Line.*

The seminar will be **Nov. 22th**, from **4 to 6 PM** in Aula seminari, floor D.

IEEE CAS
NORTH ITALY CHAPTER